

# 2022 Product Catalog

Fiber optic network components: transceivers, meters, passives, jumpers, and uptime tools

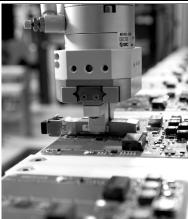


# 100% focused on uptime

We understand that your business and residential end users expect their internet and phones to work 100% of the time. That's why Integra Optics is 100% focused on uptime. It's our mission to ensure that customers can turn up services faster, build out the fiber networks they need to be competitive, and keep them up and running.











# WE SHIP **SAME-DAY**

Integra carries a vast inventory of the parts our customers need today, so they can have them in their hands tomorrow -- rather than weeks or months -- to help manage their supply chain.



# PLATFORM **AGNOSTIC**

Integra's optics are interoperable with over 80+ OEM platforms – a perfect partner when juggling multi-platform networks. Paired with our Smart Coder, this helps reduce both CAPEX and OPEX, helping customers to future-proof their network, spare more efficiently and reconfigure optics from one platform to another..



# RELIABLE AT SCALE

Integra utilizes both our human and robotics teams to ensure that all optics are triple tested before they leave our facility. We have a dedicated team ensuring that all optics are coded and tested so that they work correctly 100% of the time.

# HOW TO ORDER

Phone:

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Fmail:

integrabd@integraoptics.com

Online:

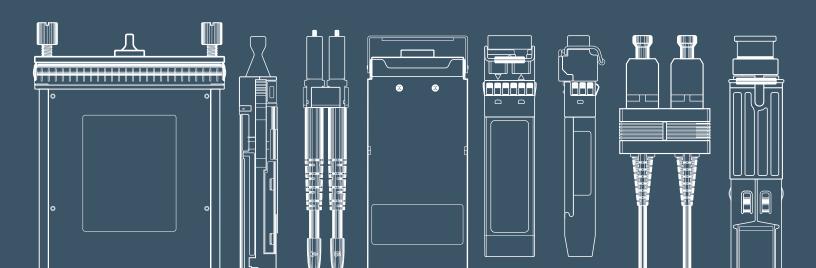
integraoptics.com



# Serving telecom, cable, and data network industries

Integra Optics helps network engineers, designers and managers around the world build out new fiber optic networks, extend the value of their existing networks and maintain uptime with the most reliable transceivers and fiber optic components available. We're providing network solutions for over 300 organizations worldwide.

	Integra Optics	OEM optics	Other 3 <sup>rd</sup> Parties
Identically coded across all OEM platforms	<b>✓</b>	<b>✓</b>	×
Engineering support 24/7	<b>✓</b>	<b>✓</b>	×
Specifications beyond OEM offerings	<b>✓</b>	×	×
On-demand availability	<b>✓</b>	×	×
In-house platform specific coding and testing of all transceivers	<b>✓</b>	×	×
Engineered, triple-tested, and inventoried in the U.S.A.	<b>✓</b>	×	×
First quality materials and components for every product	<b>✓</b>	×	×



# New solutions for a more predictable supply chain

Integra Optics was founded to answer the problems of reliability and availability. We're committed to making our transceivers not only better, but also more readily available than any other manufacturer in the industry. We maintain a large inventory of optics that are accurately coded, triple-tested, and ready to ship when you need them.



# We provide what the OEM does and what they don't!

# **Distance**

OEM's don't always supply optics to support all distances commonly used in **service provider networks** today.

# **Temperature**

Operate in extreme temperatures? Integra can provide optics for challenging environmental conditions!

# Wavelength

Integra is capable of hardware at **any** wavelength for any platform, for any transceiver!

# **Transport-Specific Optimizations**

Some transport conditions require very specific transceiver technologies. Integra Optics **matches the situation** with the right transceiver and makes it **work in your platform!** 



# **OEM Product Sampling**

Adva	MikroTik	Ekinops	Palo Alto Networks
Arista	NetApp	EMC	Phrontier
Cisco	Tellabs	Enterasys	Planet Technology
Juniper	Zhone	Ericsson	Plexxi
Nokia	ZTE Corporation	EtherWAN	QLogic
Alcatel	Accedian	Extreme	Raisecom
Aruba	Actelis	Fiberblaze	Ruggedcom
Dell	Allen Bradley	Force10	Samsung
Huawei	Allied Telesis	Fortinet	Sandvine
Infinera	Avaya/Nortel Passport	Gigamon	Signamax
Intel	Aviat	Harmonic	Sonicwall
Ciena	BridgeWave	Hirschmann	Sonnet Tech
HP	BTI	Hitachi	Sonus
Fujitsu	Calix	IBM	Sorrento
MRV	Cambium	lxia	Sun Oracle
MSA	Canoga Perkins	Keymile	Tejas Network
NetGear	Casa	KTI Networks	Telco
Ubiquiti Networks	Check Point	Lenovo	TELDAT
Adtran	Citrix	Linksys	Teleste
Arris	Commscope	Mellanox	TP-LINK
Aurora	Comnet	Metaswitch	Transition
Brocade/Foundry	Coriant	Microsemi	Transmode
Zyxel	Corning	Motorola	TrendNet
RAD	Cyan	MOXA	Turin
Ruckus	D-Link	NetScout	Viptela
F5	Dasan Networks	Occam	Westermo
Meraki	ECI	Omnitron	White Rock
Optelian	Edgecore Networks	Overture	Xtera



# Transceivers 1G & 10G

# Transceivers 25G

# SFP 1G

# **Applications**

- 1000Base-X, MetroE
- · LAN/WAN, Backhaul



### **Features**

- · Copper, SM or MM interfaces
- Variable distance support, 100m-160km
- Bi-Directional, CWDM, DWDM variants available
- Optional C-Temp, E-Temp, I-Temp capable
- Up to 4Gbps

# **Protocol Support**

**XFP** 10**G** 

**Applications** 

10GBase-X. MetroE

· LAN/WAN, Backhaul

• SM or MM interfaces

• Carrier Transport

Data Center

**Features** 

• 10/100/1000Base-X, SONET/SDH, 1-4G Fibre

# SFP+ 10G

# **Applications**

- 10GBase-X. MetroE
- LAN/WAN, Backhaul
- Carrier Transport
- Data Center



### **Features**

- · Copper, SM or MM interfaces
- Variable distance support, 100m-100km
- Bi-Directional, CWDM, DWDM variants available
- Optional C-Temp, E-Temp, I-Temp capable
- Up to 11.1Gbps

# **Protocol Support**

• 10GBase-X, SONET/SDH, Fibre Channel, CPRI & OTN





# **DWDM Tunable 10G**

# **Applications**

- 10GBase-ER/ZR
- Carrier Transport

# The second of

### Features

- SFP or XFP
- · Link distance up to 80km
- Tunable range 1528.77-1566.72
- · 50 and 100 GHz spacing
- Up to 11.3Gbps

# **Protocol Support**

10GBase-ER/ZR, SONET/SDH, Fibre Channel, CPRI &

### SFP28 28**G**

### **Applications**

- 25GBase-X, MetroE
- LAN/WAN, Backhaul
- Carrier Transport
- Data Center



### **Features**

- SM or MM interfaces
- Variable distance supported 100m-40km
- Bi-Directional, CWDM, DWDM variants available
- Optional C-Temp, E-Temp, I-Temp capable
- Up to 32Gbps

# **Protocol Support**

25GBase-X. Fiber Channel & CPRI

# Transceivers 40G

# QSFP+ 40G

### **Applications**

- 40GBase-X
- Carrier Transport
- Data Center



### **Features**

- · SM or MM interfaces
- LC or MPO connectors
- Variable distance support, 100m-40km
- Quad lane 4x10G support
- Up to 56Gbps

# **Protocol Support**

40GBase-X

# **Protocol Support**

• Up to 11.3Gbps

• 10GBase-X, SONET/SDH, Fibre Channel, CPRI, OTN with support for FEC

• Variable distance support, 100m-100km

• Optional C-Temp, E-Temp, I-Temp capable

Bi-Directional, CWDM, DWDM variants available









# Transceivers 100G, 200G & 400G

# **QSFP28** 100**G**

# **Applications**

- 100GBase-X
- LAN/WAN
- Backhaul
- Data Center

### **Features**

- SM or MM interfaces
- Variable distance support, 100m-80km
- Quad lane 4x25G support
- Up to 112Gbps
- SR4, LR4, ER4, ZR4, CWDM4/CLR4, PSM4 and Bi-Di variants available

# Protocol Support

100GBase-X & OTN

# **CFP** 100**G**

# **Applications**

- 100GBase-X
- LAN/WAN
- Backhaul
- Data Center

### **Features**

- SM-LC or MM-MPO interfaces
- Variable distance support, 100m-40km
- 10x10G or quad lane 4x25G support
- Up to 112Gbps
- SR10, LR4 and ER4 variants available

# **Protocol Support**

100GBase-X & OTN

# **Converters**

**Protocol Support** 

100GBase-X & OTN

# **CFP to QSFP28**

### **Applications**

• Coverts a CFP interface to a QSFP28 interface

CFP2 100G 200G

**Applications** 

LAN/WAN

Backhaul

**Features** 

SM-LC interfaces

Up to 212.5 Gbps

· Link distances up to 40km

Quad lane 4x25G support

• LR4, ER4 and SR10 available

100GBase-X/200G Base-X

• Primary applications align with QSFP28 optical transceivers

### **Features**

Primary features align with QSFP28 optical transceivers

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• Brings SR4 capabilities to your CFP interface

# **CFP2 to QSFP28**

# **Applications**

- Coverts a CFP2 interface to a OSFP28 interface
- Primary applications align with QSFP28 optical transceivers

### Features

- Primary features align with OSFP28 optical transceivers
- Brings SR4 capabilities to your CFP2 interface

# **CFP4** 100G

# **Applications**

- 100GBase-X
- LAN/WAN
- Backhaul
- Data Center



### **Features**

- SM-LC
- Variable distance support 100m-40km
- Quad lane 4x25G support
- Up to 112Gbps
- LR4 & ER4 variants available

# **Protocol Support**

100GBase-X & OTN



# **QSFP-DD** | 200**G** | 400**G**

# **Applications**

- 200GBase-X/400GBase-X
- LAN/WAN
- Backhaul
- Data Center

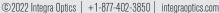
### **Features**

- SM-LC, SM-CS, SM-MPO, MM-MPO
- Variable distance support 70m-40km
- 200, 2x100, 8x50G, and 4x100G support
- Up to 425Gbps
- SR8, DR4, FR4, LR4, and ER4 variants available

### **Protocol Support**

200GBase-X, 400GBase-X







# **Additional Transceivers**

# **Direct Attach Transceivers**

# **GPON OLT**

# **Applications**

- GPON
- FTTx

### **Features**

- B+ or C+ compliant
- Variable distance support 100m-40km
- Up to a 1x64 split
- 1310nm receive, 1.244Gbps
- 1490nm transmit, 2.488Gps

# **Protocol Support**

• G.984 GPON

# SFP+ TWINAX 10G

### **Applications**

- Data Center
- SAN Networks

# **Features**

- Direct attach copper
- Variable distance support 1m-15m
- Passive and Active variants available
- Up to 10.3Gbps

# Protocol Support

• Ethernet, Fibre Channel

# SFP+ AOC 10G

# **Applications**

- Data Center
- SAN Networks

### **Features**

- Direct attach OM3/OM4 optical fiber
- Variable distance support 1m-100m
- Optional C-Temp, E-Temp available
- Up to 10.3Gbps

# Protocol Support

• 10GBase-SR, Fibre Channel

# **QSFP AOC 40G 100G**

# **Applications**

- Data Center
- Telecom



### **Features**

- Direct attach OM3/OM4 optical fiber
- Variable distance support 1m-100m
- Optional C-Temp, E-Temp available
- Up to 40Gbps or 100Gbps
- 1x40G (OSFP-OSFP) and 4x10G (OSFP-SFP+) available or 1x100G (QSFP-QSFP) and 4X25G (QS FP-SFP28)

# **Protocol Support**

 10GBase-SR, 25GBase-SR, 40GBase-SR, 100Base-SR. Fibre Channel, OTN with support for FEC and OTU4

# QSFP+ Copper 40G

# **Applications**

- Data Center
- Telecom

### **Features**

- · Direct attach copper
- Variable distance support 1m-7m
- Up to 40Gbps
- 1x40G (QSFP-QSFP) and 4x10G (QSFP-SFP+) available

# **Protocol Support**

• Ethernet, Fibre Channel

# QSFP28 Copper 100G

# **Applications**

- Data Center
- Telecom





- Direct Attach Copper
- Variable distance support 1m-5m
- Up to 100Gbps
- 1x100G(QSFP-QSFP) and 4X25G (QSFP-SFP28)

# **Protocol Support**

• Ethernet, Fibre Channel







# Meters

# **CWDM Optical Analyzer**

# **Applications**

- MetroE
- WAN
- LAN
- Backhaul



- 18 CWDM channels
- Wavelengths 1270-1610nm
- · Ruggedized with color display
- Internal rechargeable lithium battery
- Auto or manual scan capable
- Measurement data storage function
- SC/UPC SM interface

# **DWDM Optical Analyzer**

# **Applications**

- MetroE
- WAN
- Backhaul
- Carrier Transport

### **Features**

- Available with 50 or 100 GHz spacing
- Wavelengths 1527.99-1565.91nm
- · Ruggedized with color display
- Internal rechargeable lithium battery
- · Auto or manual scan capable
- · Measurement data storage function
- SC/UPC SM interface

# **PON Power Meter**

# **Applications**

FTTx



### **Features**

- Wavelengths 1270/1310/1490/1550/1577
- PON pass through for simultaneous measurement of both upstream and downstream
- · Capable of burst mode measurement of 1310nm/1270nm upstream
- · Measurement data storage function
- SC/APC SM interface

# 

# **Optical Power Meter**

# **Applications**

- FTTx
- WAN
- LAN
- RFOG

### **Features**

- Wavelengths 850/1270/1310/1490/1550 /1577/1610
- Measurement range (dBm) -50  $\sim$  +26
- Measurement data storage function
- SC interface



**Mini Optical Power Meter** 

# **Applications**

- FTTx
- WAN LAN
- RFOG

# **Features**

- Wavelengths 850/1270/1310/1490/1550 /1577/1610
- · Lightweight, portable, ruggedized design
- OLED display
- SC Interface



# **OTDR Applications**

Single Mode Fiber Applications

### Features

- 3.5inch, color LCD, touch screen
- · Measures optical fiber parameters such as length, loss, and connection quality
- · Accurate positioning of event and fault points
- Test range of 500m-80km
- Transmits at 1310/1550nm wavelengths
- High capacity lithium battery

.... AND MANY MORF!





# Fiber Jumpers

# Multi-Mode

# **Applications**

- Data Centers
- Metrn-E
- LAN Systems



### Features

- OM1 and bend insensitive OM3, OM4 and OM5
- Simplex and duplex and multicore versions
- Available in PVC (OFNR), plenum, indoor/outdoor ruggedized, low smoke zero halogen
- · All types of connectors with all types of polish
- Distances ranging from 1-100m+

# Single-Mode

# **Applications**

- Data Centers
- FTTx
- Metro-E
- LAN/WAN Systems
- Backhaul
- Carrier Transport

### **Features**

- Bend insensitive 9/125μm
- · Simplex, duplex, and multicore versions
- Buffer Size: 1.2mm, 1.6mm, 2.0mm, 3.0mm, 4.8mm
- Available in PVC (OFNR), plenum, indoor/outdoor ruggedized, low smoke zero halogen, and more
- · All types of connectors with all types of polish
- Distances ranging from 1-100m+

# **MPO Cables**

# **Applications**

- Data Centers
- FTTx
- Metro-E
- LAN Systems



# **Features**

- OM3, OM4 Multi-Mode and Single Mode
- · Method A. B and C
- 8. 12 and 24 fibers
- MPO-Male/Female and LC-UPC/APC breakout with further options available
- Distances ranging from 1-100m+

# **Passives**

# **PLC Splitters**

# **Applications**

- FTTx
- LAN/WAN Systems
- CATV Systems

### **Features**

- Low IL and PDL
- · Wide operating bandwidth
- Wide operating temperature
- Telcordia qualified
- RoHS compliant

# **WDM Mux/Demux Modules**

### **Applications**

- CWDM System
- DWDM System
- · Unidirectional Systems
- Bi-directional Systems
- CATV Systems
- FTTx

### **Features**

- · Low Insertion loss and high channel isolation
- High temperature stability
- Epoxy-free optical path
- Modular within rack mount chassis
- Custom Filter Solutions

# **Outside Plant Cassette**

# **Applications**

- CWDM System
- DWDM System
- Unidirectional Systems
- Bi-directional Systems
- CATV Systems
- FTTx

- Low profile design
- · Wide operating bandwidth
- Wide operating temperature
- Telcordia qualified
- RoHS compliant
- OSP (outside cabinet or splice enclosure)











# **Uptime Tools**

# **Optical Inspection Scopes**

# **Applications**

• Optical Inspection



### **Features**

- · Precise focus control for instant detection
- · Small and portable
- Video display
- · Snapshot and video capable
- · Over 10 adaptor tips to choose from
- Wireless Options
- · Automatic fiber qualification

# Mini Visual Fault Locator

# **Applications**

• Single Mode Fiber



### **Features**

- Dual mode operation, constant on or pulsed
- Quickly identifies damaged fibers
- · Locates fiber breaks, faults, and bends
- Operates at 650nm
- Visibility up to 10Km

# **Cleaning Kit**

### **Applications**

• Optical Inspection



### **Features**

- 1.25mm/2.5mm/MPO CleanClicker
- 1.25mm/2.5mm/MPO cleaning sticks
- 90 sheets of cleaning wipes
- Non-hazardous high-purity cleaning fluid engineered for precision optical components
- Portable flashlight
- Portable travel bad



# **Uptime Kits**

# **Applications**

- Headend/CO
- Field Technicians

# **Features**

- · Various case sizes
- Watertight, crushproof, dust resistant case
- Customizable
- Included products within a case can consist of a Smart Coder or Smart Coder+, a meter, jumpers, cleaning supplies, and a variety of transceivers.

# **Suite of Smart Coders**

# **Applications**

- Field Technicians
- · Central Staging Locations





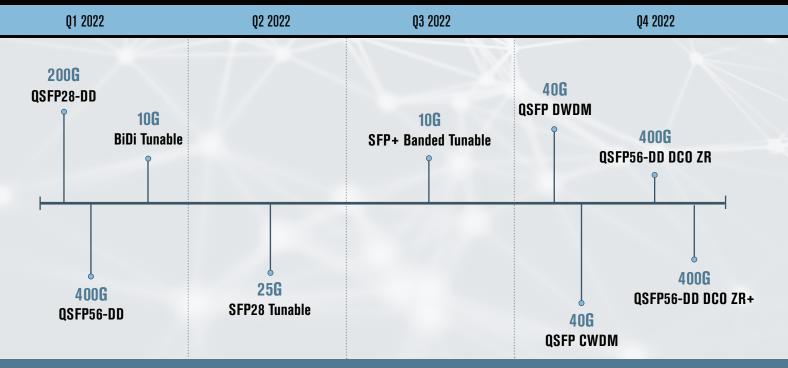


- · Allows users to rapidly reconfigure Integra's transceivers to a desired platform
- Smart Coder: Reconfigures SFP, SFP+, XFP, QSFP+ and QSFP28 optics
- Smart Coder+: Reconfigures SFP, SFP+, XFP, QSFP+, QSFP28, CFP, CFP2 and CFP4 optics
- Smart Coder<sup>2</sup>: Reconfigures SFP, SFP+, XFP, OSFP+, OSFP28 and OSFP-DD optics
- · Remote support capable
- USB powered
- Intuitive App interface
- · Displays diagnostic information





# **2022 New Product Timeline**



# 2022 New Product Specifications

# **QSFP-28 DD 200G**

### **Applications**

- Data Center
- Enterprise Networking

### **Features**

- QSFP28-DD-SR8 (100m distance, MMF)
- QSFP28-DD-CWDM4-GS (2km distance, MMF)
  - Duplex CS connector
- QSFP28-DD-LR4-CS (10km distance, SMF)
  - Duplex CS connector
- 200Gbps Data rate
- Commercial Temperature
- QSFP-DD MSA Compliant
- Digital Diagnostics

# **QSFP-56 DD 400G**



### **Applications**

- Data Center
- Enterprise Networking

### **Features**

- QSFP56-DD-SR8 (100m distance, MMF)
- QSFP56-DD-DR4 (500m distance, SMF)
- QSFP56-DD-DR4+ (2km distance, SMF)
- QSFP56-DD-FR4 (2km distance, SMF)
- QSFP56-DD-LR4 (10km distance, SMF)
- QSFP56-DD-4xLR-MPO (10km distance, SMF)
- 400Gbps Data Rate
- · Commercial Temperature
- QSFP-DD MSA Compliant
- Digital Diagnostics

# BiDi Tunable 10G

### **Applications**

- 1/10G Ethernet
- Telecom Networking
- Data Center Interconnect
- Compatible with existing passive filters

- Distances up to 20km
- Supports 1.2 to 11.3 Gb/s
- CPRI Rates
- LC Connector, Simplex SMF
- Commercial, Extended, and Industrial Temperatures
- 40 dual-band bidirectional Point-to-
- Point links in 100GHz ITU grids
- SFPP MSA Compliant
- Digital Diagnostics











# 2022 New Product Specifications

# SFP 28 Tunable 25G

### **Applications**

- Datacenter 25GbE
- Wireless 4G/5G fronthaul CPRI/eCPRI



### **Features**

- Distance up to 15km (KR4 FEC on host)
- Dual rate: 24.33G (CPRI-10) and 25.78G (25GbE)
- 100GHz spacing, Full C-band tunable
- LC Connector, SMF
- Commercial & Industrial Temperature
- SFP28 MSA Compliant
- Digital Diagnostics

# SFP+ Banded Tunable 10G

# **Applications**

- 1/10G Ethernet
- Mobile Fronthaul
- · CPRI 2-8 and eCPRI
- 1-10G FC
- 10G OTN

### **Features**

- Distances up to 40km
- Supports 1Gbps to 11.3 Gbps
- · LC Connector, Duplex SMF
- Industrial Temperatures supporting -40 °C to +85 °C
- 5 Band options 9 channels each coving ITU channels 20-60
- SFPP MSA Compliant
- Digital Diagnostics

# QSFP CWDM 40G

### **Applications**

- 40G Ethernet
- Compatible with existing **CWDM Passive Filters**



### **Features**

- Distance up to 10km
- 40G
- Fixed CWDM Wavelengths
- LC Connector, Duplex SMF
- Commercial
- QSFP MSA Compliant
- Digital Diagnostics

# QSFP DWDM 40G

### **Applications**

- 40G Ethernet
- · Compatible with existing **DWDM Passive Filters**
- Telecom Networking
- Data Center Interconnect



### **Features**

- Distance up to 80km (with DCM and EDFA)
- Fixed wavelengths on 100GHz ITU Grid
- LC Connector, Duplex SMF
- Commercial
- OSFP MSA Compliant
- Digital Diagnostics

# QSFP56-DD DCO ZR 400G

# **Applications**

- Network Access
- Edge Apps
- Data Center Interconnect



### **Features**

- Distance up to 120km
- IEEE 400GAUI-8 Ethernet compliant
- 75GHz or 100GHz, Full C-band tunable
- Commercial Temperature
- QSFP+ MSA Compliant
- Digital Diagnostics

# QSFP56-DD DCO ZR+ 400G

# **Applications**

- Network Access
- Edge Apps
- Data Center Interconnects



- Distance up to 400km at 400G, 2000km at 200G, 5000km at 100G
- Multi-rate IEEE Ethernet
- Full C-band tunable
- Commercial Temperature
- Digital Diagnostics



# Suite of Smart Coders

Now you can spare more efficiently and gain patented flexibility with Integra's suite of Smart Coder products. These powerful devices give network engineers and field techs the power to quickly reconfigure transceivers for any network hardware. Now with the SmartCoder2 you can save even more time! Our latest product features bluetooth connectivity with mobile app and is battery powered, leaving you the flexibility to code when and where you need to!

Features	<b>Smart Coder</b>	Smart Coder+	Smart Coder <sup>2</sup>
Recode SFP/SFP/SFP28	lacksquare		lacksquare
Recode XFP	<b>Ø</b>		<b>Ø</b>
Recode QSFP/QSFP28	<b>Ø</b>	<b>Ø</b>	<b>Ø</b>
Recode QSFP-DD			<b>⊘</b>
Recode CFP/CFP2/CFP4			
Recode DAC/AOC	<b>Ø</b>		lacksquare
Coding from 1G to 100G	lacksquare		<b>Ø</b>
Coding from 1G to 400G			lacksquare
Offline Tuning Capabilities			
Remote Assist			
Bluetooth Connectivity			<b>Ø</b>
Battery Powered (no need to plug in)			<b>Ø</b>
Mobile App (iOS and Android)			lacksquare

# **Package Options Include:**











# **Additional Product Features:**

- Recode transceivers as many times as needed
- Conduct diagnostic monitoring on both Integra and non-Integra brand transceivers (transmit power, receive power, temperature, and more)
- · Recode cabled transceivers
- Recode frequently used platforms with our new "Favorites and Searching" functionality
- Quickly recode multiple components to the same platform/finished part with batch coding
- Plug in multiple Smart Coders to the same computer and recode optics in parallel
- · Easily select parts and platforms with user-friendly interface









While other optics providers offer products that have the ability to recode optics, Integra's technology far surpasses other devices:

Features			
Supported Transceivers	Integra Optics	Competitor 1	Competitor 2
Recode SFP/SFP/SFP28	<b>Ø</b>	V	<b>Ø</b>
Recode XFP	<b>Ø</b>	<b>Ø</b>	
Recode QSFP/QSFP28	lacksquare		
Recode QSFP-DD			
Recode CFP/CFP2/CFP4			
Recode DAC/AOC			
Transceiver Features			
Code Optics to OEM Platform			
DWDM Wavelength Tuning		<b>Ø</b>	<b>⊘</b>
Real Time Diagnostics			
Software Features			
Favorites			
Batch Coding	lacksquare		
Remote Support			
Tuning Application			lacksquare
Compatibility			
Windows	<b>⊘</b>		<b>Ø</b>
Mobile App - Andriod			<b>Ø</b>
Mobile App - iOS			
No AC Connection Required			<b>Ø</b>
Offers Mutiple Coding Devices	<b>⊘</b>		

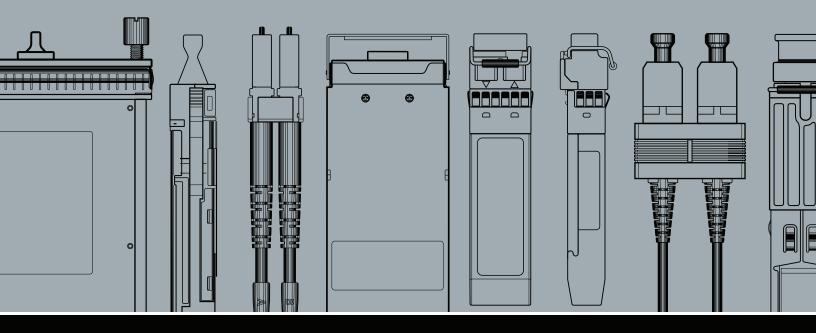


While other optics providers may claim to have recoding devices, don't be afraid to put those claims to the test by asking them to recode a tunable to a 10G or 1G fixed channel, or recode an optic to another platform! Simple demonstrations will highlight product differences!



Integra has a solution for your 10G DWDM inventory issues! Integra's Tuner allows you to stock a single part without the interface complications of a tunable configured optic. It is as simple as downloading an additional application for the Smart Coder. The Integra Tuner allows you to tune specified DWDM optics to a specific channel before insertion; whatever platform you are using will recognize the optic as a fixed wave part, thus eliminating those interface complications a tunable brings to the table.







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