

2018
PRODUCT
CATALOG



ARTECH

ADVANCED
RESEARCH
TECHNOLOGIES



ICT Beyond the Future

ARTECH Co., Ltd. looks beyond the future to a world united through optical interconnect solutions. We strive to be a part of this globally interconnected world by dedicating ourselves to the innovative research and development of high-speed fiber optic transceiver modules ranging from 100G CFPx, QSFPx, and 25G SFPx. Our dedication has made us Asia's first company to commercialize 100G CFP that reaches up to 80km for OTN/Ethernet applications, which has successfully driven the nationwide project in China since 2015.

ARTECH is expanding its presence in the world scene of optical interconnect solutions by continuing to develop new innovate and cost-competitive solutions that meet the rising demand of fixed communication network, system integration, advanced data center, and advanced access network for enterprises, industries, and homes.

At the heart of ARTECH is its customers. Without our customer's satisfaction, we could not have made it here. Our customers appreciate us for our zeal, dedication, customer-oriented perspectives, and our commitment to bringing the future of communication to life. We strive to ensure customer's needs and requirements are met by achieving perfection in every product we make.



ARTECH : ADVANCED TECHNOLOGY THAT LIGHTS UP TOMORROW

PRODUCT PORTFOLIO

We pride ourselves in our products. As such, our optical transceiver modules are all designed, developed and produced in-house, allowing us to customize each module to meet the specific needs of our customers and partners.

With the use of each of our products, we guarantee maximum connectivity, more efficient system management, and the elimination of unnecessary costs and limitations found in complex network environments.



Metro/EPC



DataCenter DCI

OUR EXPERTISE

All of our innovative products and solutions are here because of our expertise. Thanks to our dedicated and hard-working experts, we were the first in the market to commercialize 100Gbit/s CFP that reaches up to 80km.



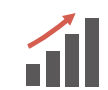
Energy-Efficiency

ARTECH Optical modules operate lower -power consumption than the others in the market.



Long-haul Operation

First commercialized 100Gbit/s CEP that reaches up to 80km (50mIs) in the market.



Scalability

Enabling design of the Optical module featuring in a range between 10G~400G at expandable channel.



Optimal Product Customization

Our expertise is to provide the value added customers with future-proof solution with tunable power, various packing option, and customizable channel.



Optical Solution for DATA CENTER

Design of new optical moduls in a small form factor for Enterprise Date Center Interconnection and Terrestrial Network Connection.

Evolution from Core Technology to Next Generation Fiber Optics

Vertical-Integration

Our top priority at ARTECH is bringing value to the customer. Being a vertically-integrated company, we ensure value is put into each crucial step of the manufacturing process so as to bring you the product you need.

100Gbase APD ROSA 30km

100Gbase PIN ROSA 10km

100Gbase PIN ROSA CWDM4



Proven Technology

Our 100Gbase transceivers have been tested and validated by well-known global equipment providers. Our proven technology is also backed up by our committed and timely technical support.

Embracing 100G Hi-Speed Optical Transceivers



MAXIMUM PERFORMANCE

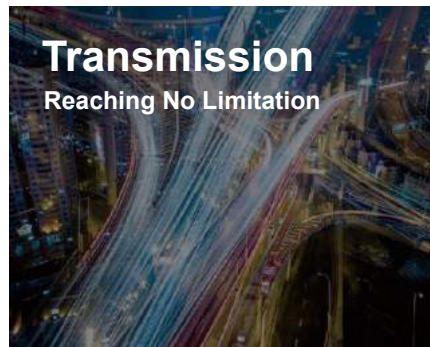
MINIMUM CAPEX

The demand for 100Gb+/s in telecom continues to grow among metro areas including DCIs. Our valued customers are heavily investing in these advanced technologies in order to efficiently manage long-span interconnection.

Through our dedication and hard work, we are providing large telecom carriers with high-speed 100Gb/s CFPs at a reach of 40km/80km. Thanks to our customer's demand, we are even developing beyond this and delving into higher bandwidth.

ARTECH :

ADVANCED TECHNOLOGY
THAT LIGHTS UP TOMORROW



Wireless Broad
Enabling Converged
5G Wireless Fronthaul

	Part Number	Date Rate	Transmitter	Receiver	Wavelength (nm)	Reach (km)	Temperature Range [C/E/I]	status
100G CFP	NTC1-HTZR-3SOH	100G Ethernet/OTU4	EML	APD	ITU DWDM BAND 1~4	80	C	Mass Production
	NTC1-HFER-3SOH	100G Ethernet/OTU4	EML	SOA+PIN	1310	40	C	General Availability
100G CFP2	NTC2-HFER-3SOH	100G Ethernet/OTU4	EML	SOA+PIN	LAN WDM	40	C	General Availability
100G CFP4	NTC4-HFLR-3SOH	100G Ethernet/OTU4	EML	PIN	1310	10	C	General Availability
100G QSFP28	NTQ2-HFER-3SOHL	103.125Gb/s	EML	APD	LAN WDM	40	C	Eng Sample
300G CXP AOC	NTCX-MCS0-6SWM	300G 12X25G	VCSEL	PIN	850	100m	C	General Availability
50G PAM4 QSFP28	NTQ4-QOLR-3SOH	50Gb/s	EML/(DML)	PIN	1310	10	C	Eng Sample
25G SFP28	NTPC-DQ20-5S3x	25.78 Gb/s	DML	PIN/APD	1310	20	C/I	Eng Sample
	NTPC-DQ30-5C3x	25.78 Gb/s	EML	PIN/APD	1310	30	C	Eng Sample

ARTECH :

ADVANCED TECHNOLOGY THAT LIGHTS UP TOMORROW

NEW PRODUCTS 2018

100GBase QSFP28



100GBase QSFP28 ER4

- Supports 100GBASE-ER4(25.78Gb/s) operation
- Maximum aggregated data rate of 103.1Gb/s
- Maximum link length of 40 km on SMF (TBD)
- Operating case temperature of 0°C to +70°C
- 4x25G retimed electrical interface

100G ROSA



100Gbase LAN-WDM APD ROSA ERL

- Integrated four 28G APDs using an optical LAN-WDM DEMUX
- Flexible printed circuit (FPC) for electrical signal interface
- LC Receptacle
- High sensitivity
- Low power consumption

25GBase SFP28



25Gbase SFP28 CPRI eLR

- Up to 25Gbps
- 25G DFB TOSA & APD ROSA
- Maximum link length of 20km on SMF
- Operating case temperature of -40°C to +85°C
- 16.5 dBm @ 25Gbps, BER=1E-12(ER : 4dB)
- Power consumption : 1.5W(TBD)

ARTECH Quality Policy

At ARTECH, quality is not an act, it is a habit. We have extensive experience in the reliability and management of subcomponents and assemblies of optical transceivers in order to meet customer needs and requirements. Prior to mass production, all products are required to go through the quality control program which is run by a number of experts from our R&D, technical processing and production, and quality control teams. The program is supported by continuous evaluations.

ARTECH's quality control activities repeatedly meet international standards. Our activities are managed through SPC (Statistical Process Control) to ensure the product's quality level is 3.5 ~ 4σ or higher and our quality improvement program strives to satisfy the quality criteria of Telcordia GR-468-CORE.

Our safety-related quality program is no different, conforming to international standards by:

- Obtaining UL Mark (File No. E220300) for electrical safety
- Passing FDA CDRH21 and IEC60825-1
- Complying with European Union Directive 2002/95/EC (RoHS)
- Acquiring ISO 9001 and TL9000 (September 2002)
- Being certified with ISO 14001 (January 2005)

Notes:

ARTECH may change specifications and the appearance of its products for improvement without providing prior notice. At the purchase and use of the product, please check the latest information.

Please use our products in accordance with the instructions provided in the manual, user's guide, or available specifications.

Please be aware that exporting our products or technologies may be subject to the Foreign Trade Law of South Korea and export control acts and regulations of other related countries.

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1x50Gbd-PAM4 QSFP28 LR

- Supports 50Gb/s PAM4
- Upto 10km transmission over SMF
- QSFP28 Power Class 3 (< 3.0W)
- Operating case temperature of -5°C to +70°C



100Gbase LAN-WDM PIN ROSA

- Integrated four 28G APDs using an optical LAN-WDM DEMUX
- Flexible printed circuit (FPC) for electrical signal interface
- LC Receptacle



25Gbase SFP28 ERLite C/T

- Up to 25Gbps
- 25G EML TOSA & APD ROSA
- Maximum link length of 30km on SMF
- Operating case temperature of 0°C to +70°C
- 18 dBm @ 25Gbps, BER=1E-12 (ER : 8dB)
- Power consumption : 2.3W(TBD)

100GBase CFP



100Gbase CFP ZR4

- Supports 100GEthernet & OTU4 up to 80km w/FEC 75km w/out FEC
- LAN-WDM cooled EML for Optical light source.
- Built-in SOA plus ROSA
- -5~+75± operating case temperature.
- CFP MSA MDIO IEEE802.3 compliant.



100Gbase CWDM PIN ROSA

- Integrated four 28G PIN PD using an optical CWDM DEMUX
- Flexible printed circuit (FPC) for electrical signal interface
- LC Receptacle



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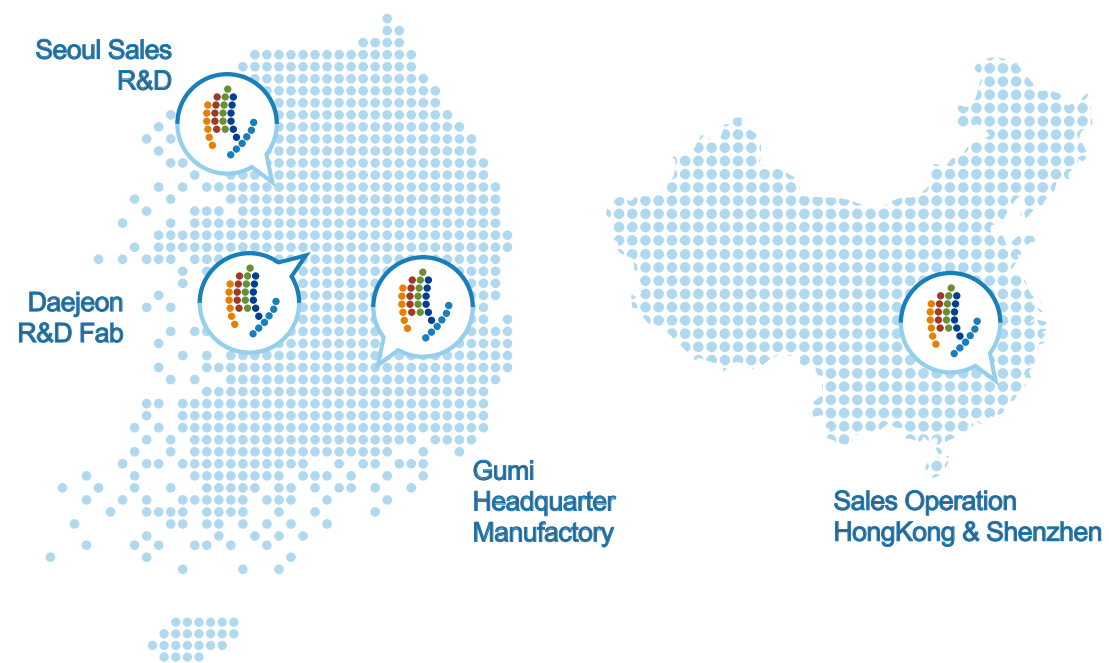
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