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FOR IMMEDIATE RELEASE

No. 2983

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Mitsubishi Electric to Launch Can-type Optical Transmitter Module for Mobile Networks

Helps to reduce power consumption of radio access networks

TOKYO, January 20, 2016 — [Mitsubishi Electric Corporation](http://www.mitsubishielectric.com) (TOKYO: 6503) announced today the coming launch of a 10 Gbps optical transmitter for high-speed, large-volume data transmission between base stations and central offices in radio access networks within mobile telecommunication systems. The module, which comprises an electro-absorption modulator laser (EML) and a transmitter optical sub-assembly (TOSA), reduces fluctuations in optical wavelengths for dense wavelength-division multiplexing (DWDM). Mitsubishi Electric will commercially launch its new EML-TOSA on February 1.

The module, which complies with the 10 Gbps Miniature Device Multi Source Agreement (XMD-MSA), features a cylindrical can-type—not box-type—profile suitable for mass production.



10Gbps DWDM Can-type EML-TOSA

In LTE and LTE-Advanced fourth-generation (4G) mobile systems, DWDM has attracted attention as a means of reducing the power consumption of optical transmitter modules that transmit data between base stations and central offices. Mitsubishi Electric’s new Can-type EML-TOSA is compatible with DWDM and its TOSA can operate in an industry-leading maximum temperature of up to 95 degrees Celsius.

Product Features

- 1) ***Reduces power consumption of network equipment***
 - Withstands high temperatures thanks to optimal EML structure
 - Reduces power consumption of thermoelectric cooler by approximately 50 percent compared to Mitsubishi Electric’s current FU-612REA model
- 2) ***Compatible with DWDM and contributes to increased traffic capacity***
 - Optimal EML structure reduces fluctuations in optical wavelengths due to operating temperatures
- 3) ***Helps to reduce the size of optical transmission equipment***
 - Combines highly compact configuration with capability to operate at temperatures of up to 95 degrees Celsius

Sales Schedule

Product	Model	Transmission length	Operating case temperature range	Shipment date
10 Gbps DWDM Can-type EML-TOSA	FU-615REA	25 km	-40 °C to + 95 °C	February 1, 2016

Specifications

Model	FU-615REA
Wavelengths	1529.55 nm to 1561.42 nm (ITU Grid: C-Band, 100 GHz Spacing)
Transmission length	25 km
Operating case temperatures	-40 °C to + 95 °C
Power consumption of thermoelectric transducer	less than 0.5 W
External dimensions	XMD-MSA compliant

Environmental Awareness

This product is compliant with the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive 2011/65/EU.

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About Mitsubishi Electric Corporation

With over 90 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,323.0 billion yen (US\$ 36.0 billion*) in the fiscal year ended March 31, 2015. For more information visit:

<http://www.MitsubishiElectric.com>

*At an exchange rate of 120 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2015