

# Fujitsu Optical Components Line-up



| Part Number               | Maximum Data Rate<br>[Gbps] | Wavelength<br>[nm]     | Max Power<br>Consumption<br>[W] | Tc [°C]  | Size<br>(L x W x H)<br>[mm] | Distance [km]  |                                                                                     |                                                                                     |
|---------------------------|-----------------------------|------------------------|---------------------------------|----------|-----------------------------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| CFP2 ACO Transceiver      |                             |                        |                                 |          |                             |                |                                                                                     |                                                                                     |
| (Class2)<br>FIM38550/110  | 200(*2)                     | Full C-band<br>Tunable | 12                              | 0 to 70  | 107.5 x 41.5<br>x 12.4      | (*2)           |  |                                                                                     |
| CFP2 DCO Transceiver      |                             |                        |                                 |          |                             |                |                                                                                     |                                                                                     |
| FIM38750(*3)              | 400(*2)                     | Full C-band<br>Tunable | (*)                             | -5 to 70 | 107.5 x 41.5<br>x 12.4      | Metro          | 400km(*2)                                                                           |  |
| FIM38760(*3)              | 200(*2)                     |                        | (*)                             |          |                             |                | 2500km(*2)                                                                          |                                                                                     |
| OSFP DCO Transceiver      |                             |                        |                                 |          |                             |                |                                                                                     |                                                                                     |
| FIM38800(*3)              | 400                         | Full C-band<br>Tunable | (*)                             | 0 to 75  | 100.4 x 22.6<br>x 13.0      | ZR             | 120km                                                                               |  |
| FIM38850(*3)              | 400(*2)                     |                        | (*)                             |          |                             | OpenZR+<br>MSA | 400km(*2)                                                                           |                                                                                     |
| QSFP56-DD DCO Transceiver |                             |                        |                                 |          |                             |                |                                                                                     |                                                                                     |
| FIM38900(*3)              | 400                         | Full C-band<br>Tunable | (*)                             | 0 to 75  | 93.3 x 18.4<br>x 8.5        | ZR             | 120km                                                                               |  |
| FIM38950(*3)              | 400(*2)                     |                        | (*)                             |          |                             | OpenZR+<br>MSA | 400km(*2)                                                                           |                                                                                     |

(\*) Available upon request (\*2) Depends on modulation format and FEC (\*3) Under development

| Part Number                    | Data Rate [Gbps] | Wavelength [nm]                                                                                      | Max Power Consumption [W] | Tc [°C]   | Size (L x W x H) [mm] | Distance [km] |            |
|--------------------------------|------------------|------------------------------------------------------------------------------------------------------|---------------------------|-----------|-----------------------|---------------|------------|
| <b>100G QSFP28 Transceiver</b> |                  |                                                                                                      |                           |           |                       |               |            |
| FIM37801/112                   | 103.1            | L0: 1294.53 to 1296.59<br>L1: 1299.02 to 1301.09<br>L2: 1303.54 to 1305.63<br>L3: 1308.09 to 1310.19 | 4.8                       | 0 to 70   | 71.1 x 18.3 x 8.4     | 4WDM40 MSA    | 40 (*2)    |
| FIM37801/162                   | 103.1/111.8      |                                                                                                      | 4.7                       |           |                       | ER4L          | 40/30 (*3) |
| FIM37801/172                   | 103.1            |                                                                                                      | 4.7                       |           |                       |               | 40/30 (*1) |
| FIM37811/112                   | 103.1            |                                                                                                      | 5                         | -40 to 85 |                       | 4WDM40 MSA    | 40 (*2)    |
| FIM37000/172 (*4)              | 103.1            |                                                                                                      | 5.5                       | 0 to 70   |                       | ZR4           | 80 (*5)    |
| FIM39800/172 (*4)              | 106.25           | L: 1308.09 to 1310.19                                                                                | 4.0                       | -40 to 85 |                       | ER1           | 40 (*6)    |
| FIM39710/172 (*4)              | 106.25           | L1: 1303.54 to 1305.63<br>L2: 1308.09 to 1310.19                                                     | 4.0                       | -40 to 85 |                       | ER1-Bidi      | 30 (*6)    |
| FIM39700/172 (*4)              | 106.25           | L1: 1294.53 to 1296.59<br>L2: 1308.09 to 1310.19                                                     | 4.0                       | -40 to 85 |                       | LR1-Bidi      | 20 (*6)    |

(\*) 30km interoperability w/ existing ER4 (w/o FEC)  
40km w/ host card's RS(528, 514) FEC  
 (\*2) 40km w/ host card's RS(528, 514) FEC  
 (\*3) 103.1Gbps : 30km interoperability w/ existing ER4 (w/o FEC)  
40km w/ host card's RS(528, 514) FEC  
111.8Gbps : 30km w/ host card's RS(528, 514) FEC  
 (\*4) Under development  
 (\*5) 80km w/ host card's RS(528, 514) FEC  
 (\*6) with KP1 FEC inside Module

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| Part Number                  | Baud Rate (Gbaud) | Drive Method   | Wavelength [nm] | Drive Voltage (V <sub>th</sub> ) (at RF) [V] | Alpha Parameter | RF Connector | T <sub>c</sub> [°C] | Size (L x W x H) [mm] | DP-16QAM                                                                            | DP-QPSK                                                                             |
|------------------------------|-------------------|----------------|-----------------|----------------------------------------------|-----------------|--------------|---------------------|-----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| LiNbO <sub>3</sub> Modulator |                   |                |                 |                                              |                 |              |                     |                       |                                                                                     |                                                                                     |
| FTM7992HM                    | 64                | Single - Ended | C-band          | ≤4.2 (at 64Gbps)                             | 0               | G3PO         | -5 to 75            | 81.7 x 12.5 x 6.5     |  |  |
| FTM7995HN                    | 45                |                | C-band          | ≤4.5 (at 45Gbps)                             |                 | GPPO         |                     | 90.5 x 13.5 x 7.0     |  |  |
| FTM7979HKA (SFF type)        | 32                |                | C-band          | ≤ 3.5 (at 32Gbps)                            |                 | FPC          |                     | 82.0 x 10.0 x 5.5     |  |  |
| FTM7977HQA                   |                   |                | L-band          |                                              |                 | GPPO         |                     | 90.5 x 13.5 x 7.0     |  |  |

 400G

 300G

 200G

 150G

 100G



| Part Number                  | Baud Rate (Gbaud) | 3dB Cut-off Freq. [GHz] | Wavelength [nm] | Output Volt. Swing [mVp-p] | Power Consumption [W] | RF Connector | Tc [°C]  | Size (L x W x H) [mm] | DP-16QAM | DP-QPSK |
|------------------------------|-------------------|-------------------------|-----------------|----------------------------|-----------------------|--------------|----------|-----------------------|----------|---------|
| Integrated Coherent Receiver |                   |                         |                 |                            |                       |              |          |                       |          |         |
| FIM24941 (VOA Integrated)    | 96                | >50                     | 1528 to 1567    | TBD                        | TBD                   | CPW          | -5 to 85 | 27.0 x 12.0 x 5.5     |          |         |
| FIM24902 (VOA Integrated)    | 64                | Typ. 40                 |                 | 300 to 700                 | Typ. 1.4              | CPW          |          | 23.0 x 12.0 x 5.5     |          |         |
| FIM24725 (VOA Integrated)    | 32                | Typ. 22                 |                 | 300 to 900                 | Typ. 1.4              | CPW          |          | 23.0 x 12.0 x 5.5     |          |         |

600G

400G

300G

200G

100G

■ All of Fujitsu's transceivers, modulators and receivers are RoHS10 compliant.

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