

NOIF-1000MF OPTICAL INTERFACE UNIT (Multi-Format Compatible)

The NOIF-1000MF optical interface unit converts such electric signals as SD-SDI and HD-SDI conforming to SMPTE 259M/292M and DVB-ASI conforming to DVB DOCUMENT A010 to optical signals, enabling a long-distance transmission via optical fiber cable.



Features

Multi-format compatible

Automatic determination of the HD-SDI, SD-SDI and DVB-ASI signal formats for transmission.

Excellent cost-efficiency

Simple configuration means compact design and excellence in cost-efficiency.

LED and relay alarm indication

Contact output and LED alarm indication on the front panel available.

EMI-free fiber-optic transmission

Optical fiber transmission means no effect from electromagnetic induction noise.

Flexible unit configuration

Both MF E/O and MF O/E cards can be mounted on the same frame, mixed with each other.

Long distance transmission model available

You may choose a long-distance transmission model using DFB laser (for 40km transmission).

Power supply in a redundant system

Power supply can be configured as a optimum redundant system and conforms to the high frequency radio-wave regulations.

Hot-swappable plug-in design

Each card and power supply can be replaced with the power on for better maintainability.

CWDM compatible

Signal interface specifications

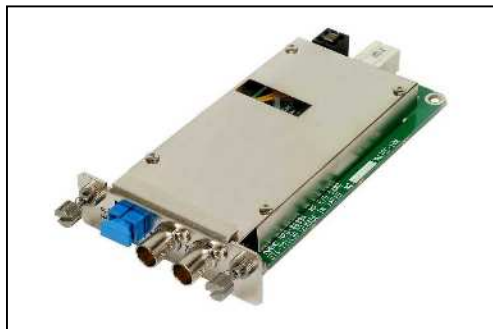
	Standard type (1.3 μ mFP-LD)	Long distance type (DFB-LD)
Data rate	HD SDI: 1.485 / 1.001Gb/s SD SDI: 270Mb/s, 143Mb/s	DVB-ASI: 270Mb/s
Transmission distance	2km*1 (including connection loss)	40km*2
Optical wavelength	1310 ± 40nm	1310 ± 40nm or 1550 ± 40nm
Spectral FWHM (Full Width Half Maximum)	10nm	1nm
Optical output level	-7.5 ~ -12.0dBm	+1.0 ~ -1.0dBm
Optical input level	-5.0 ~ -20.0dBm	-5.0 ~ -20.0dBm
Allowable optical loss	8dB	19dB
Bit error rate	under 10 ⁻¹¹ (at pathological signal)	
Optical connector type	SC connector	
Optical fiber type	Single mode	

*1 Transmission distance is a typical value. Actual transmission distance may vary depending on transmission line loss.

Frame specifications

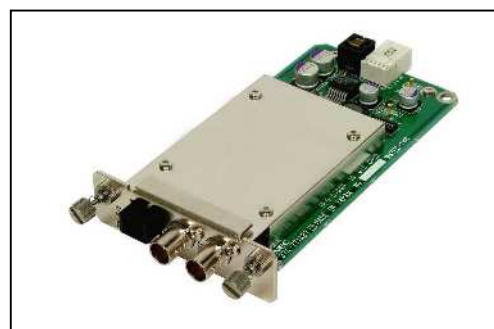
Type	Rack-mount type (2RU)
Dimensions	480 (W) X 88 (H) X 450 (D) mm
Number of slots	12 (max.)
Supply voltage	AC85 ~ 264V (single phase)*
Power consumption (max.)	75VA (in a redundant system)
Operation temperature	0 ~ 40
LED indication	Mounted card types/HD, D1, D2 (automatically detected input signal) /LD FAIL/POWER ON/Fan alarm
Contact output alarm (Contact closed for abnormal conditions)	<ul style="list-style-type: none"> · Card alarm (for each card slot) · PLL UNLOCK or abnormal optical output (E/O card) · Fan alarm (for each power supply) · Power supply unit fan stopped · Power supply alarm (for each power supply) · Abnormal direct current output of a power supply unit

* DC-48V operation is optionally available.



MF E/O Card

Input signal: HD/SD SDI electric signal
Output signal: HD/SD SDI electric signal
HD/SD SDI optical signal



MF O/E Card

Input signal: HD/SD SDI optical signal
Output signal: HD/SD SDI electric signal x 2
* DVB-ASI signal x 1 output only

Safety precautions

To install, make connections and operate this product, please carefully read and observe instructions, precautions and recommendations in our instruction manuals.

The colors in this brochure may differ from those of the actual unit. Designs and specifications of this product is subject to change without prior notice.

For further details or inquiries, please contact:
Overseas Sales Department, Broadcast and Control Systems Sales Division, NEC Corporation
7-1, Shiba 5-chome, Minato-ku, Tokyo 108-8001, Japan
TEL: +81 3 3798 5463
FAX: +81 3 3798 8476
Cat. No. BBV053 1st 0707

ISO 9000 Series



ISO 9001 JMI-0119
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ISO 14001



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