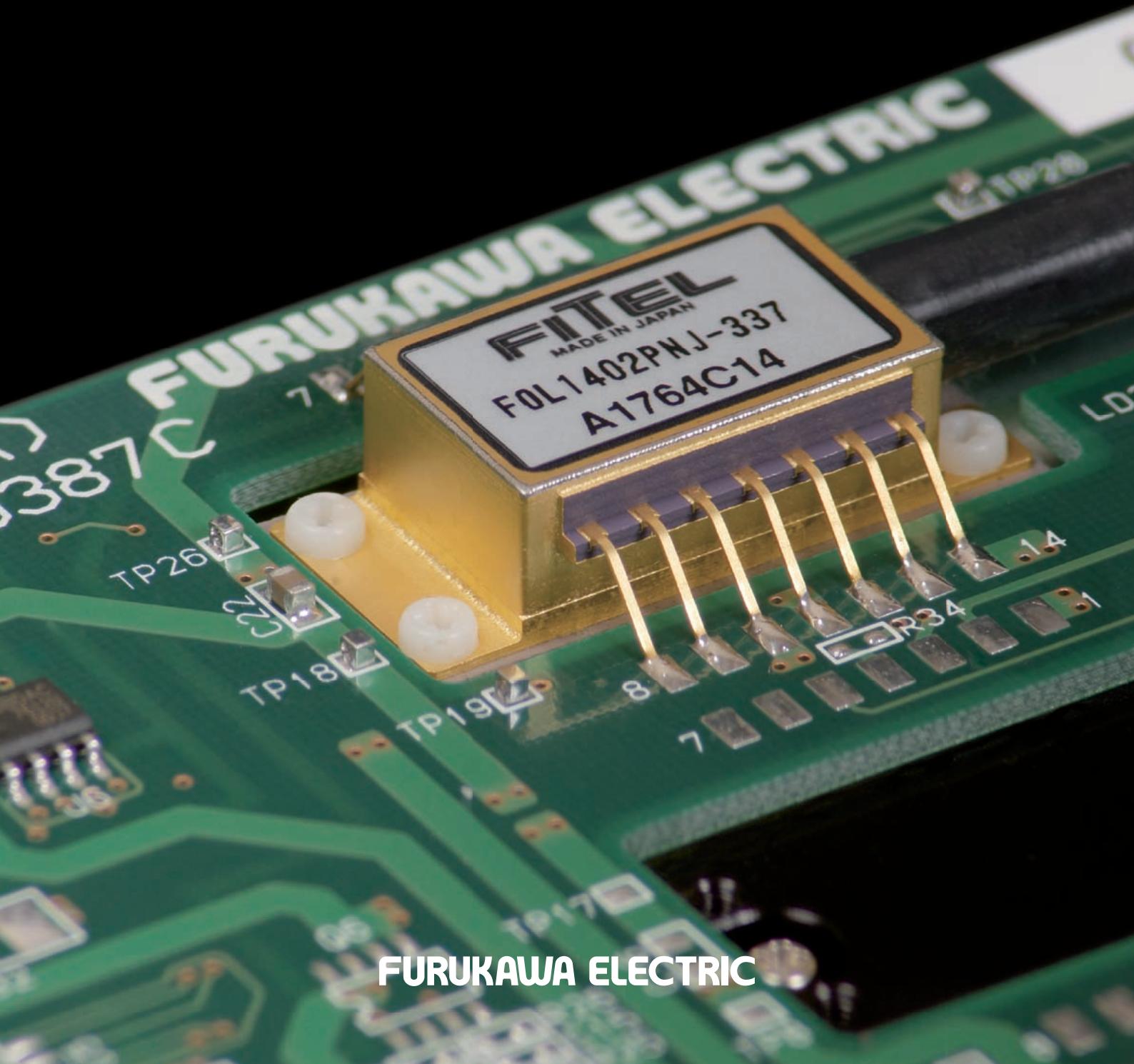
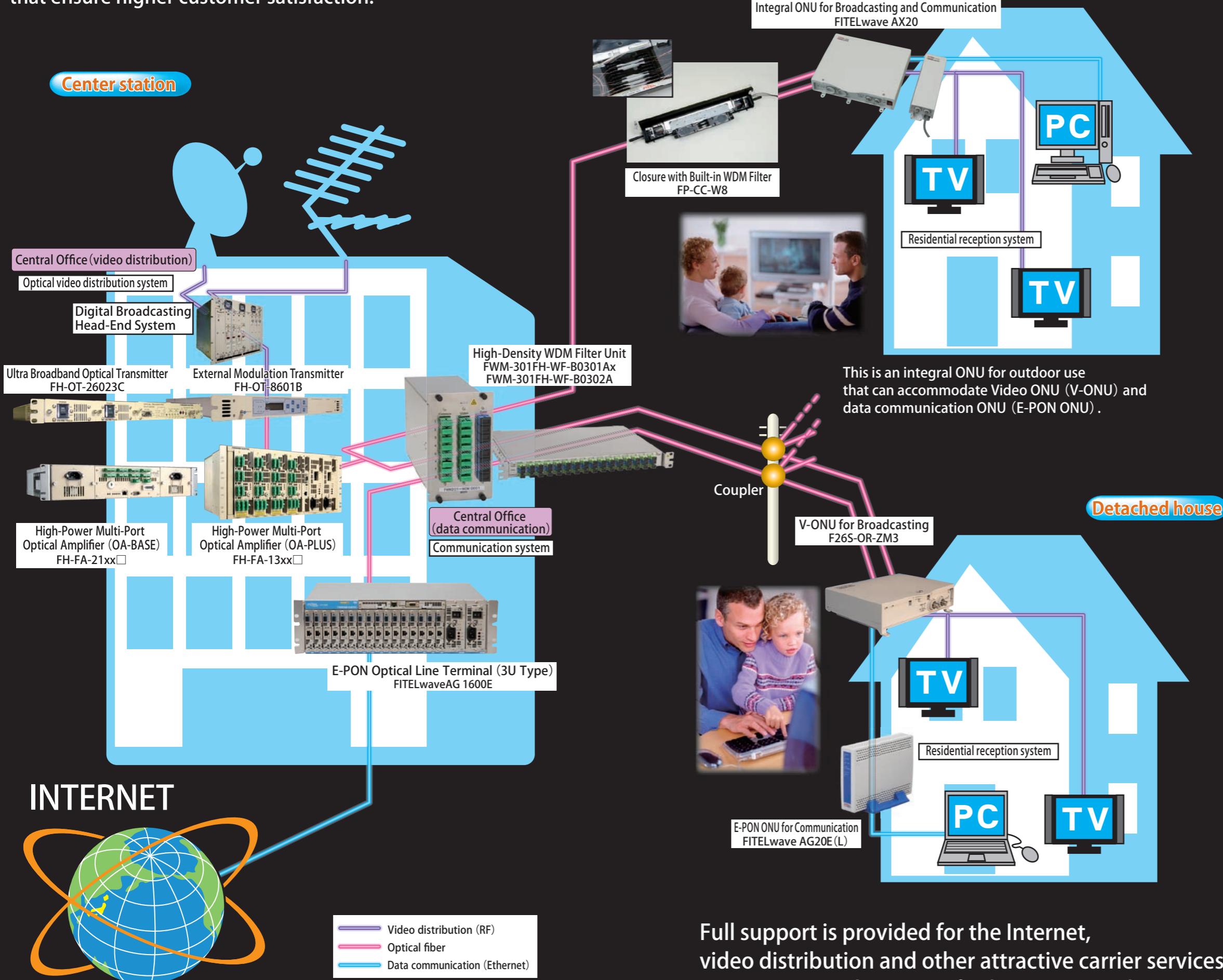


FTTH Systems



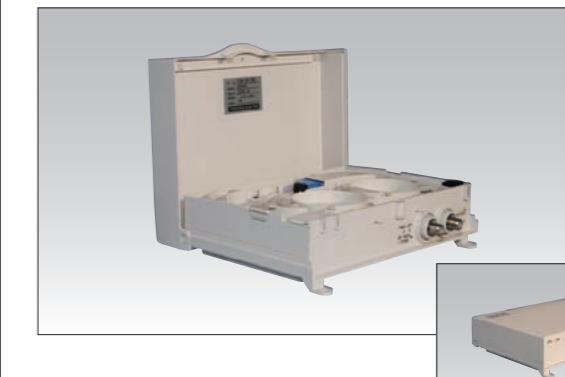
FURUKAWA ELECTRIC

Furukawa Electric can configure high-quality, stable, flexible and efficient optical transmission systems through its comprehensive offerings, from optical components to products and from products to systems. Our broad product lineup offers optical video distribution and communication services that ensure higher customer satisfaction.



1 V-ONU for Broadcasting

F26S-OR-ZM3



This is a compact and lightweight V-ONU for FTTH terminals.

Item	Specifications
Receiving optical element	pin-PD
Transmission wavelength	1.3μm band or 1.55μm band
Optical connector	SC/SPC (standard)
Receiving optical power	-8~-2dBm
Frequency band	70~2,602MHz
High-frequency signal output power	mode1 Analog: 95dBμV; Digital: 85dBμV mode2 Analog: 89dBμV; Digital: 79dBμV
Number of output connectors	1
Power supply	AC100V±10%
Power consumption	7W
Dimensions	104(W)×29.5(D)×60(H) mm (excluding projections)
Mass	0.3kg or less

2

Integral ONU for Broadcasting and Communication

FITELwave AX20



V-ONU for broadcasting and E-PON ONU for communication have been integrated.

Item	Specifications
Transmission medium	1.3μm zero-dispersion optical fiber
Optical connector	SC/SPC
Optical wavelength	1,550nm
Optical input power range	-2~~-8dBm
Transmission frequency band	70~770MHz
Max. transmission capacity	Analog 11ch + Digital 80ch
RF output power	95dBμ
Number of output terminals	1
Transmission medium	1.3μm zero-dispersion optical fiber
Optical wavelength	Downstream: 1,480~1,500nm; Upstream: 1,260~1,360nm
Allowable transmission loss	29dBm or more (including power penalty of 1dB or less)
Optical connector	SC/SPC
LAN port 1	10M/100M/1000M, Auto-Negotiation/Fixed
LAN port 2	10M/100M, Auto-Negotiation/Fixed
PoE-compatible terminal	1(LAN2)
PoE receiving input voltage	DC+48V
Temperature range	-20~40°C
Humidity range	30~80% (no dew condensation)
Radio wave regulation	VCC classB-compliant
Extraneous radiation	34dBμ/m or less
Dimensions	Main body: 205(W)×59.5(D)×207(H) mm / Power supply: 80(W)×59.5(D)×207(H) mm
Mass	Main body: 1.5kg / Power supply: 0.5kg

3

High-Power Multi-Port Optical Amplifier (OA-PLUS)

FH-FA-13xx□

4

High-Power Multi-Port Optical Amplifier (OA-BASE)

FH-FA-21xx□



High-power and multiple-port have been realized.
The product lineup includes +16/18/20dBm output.

Item	Specifications
Wavelength	1,550~1,560nm
Optical input power	+10dBm (standard)
Optical output power	Type A : +16dBm/port Type B : +18dBm/port Type C : +20dBm/port
Noise figure	6.0dB or less; when in combination with OA-BASE (OA-BASE input: 0dBm)
IN/FAIL	Turned off when normal; red LED turns on when abnormal
Monitoring and control interface	SNMP/WEB/TELNET
Power supply/power consumption	AC100V or DC-48V/AC100V or less, DC550W or less (full implementation)
Dimensions	483(W)×399(D)×221.5(H) mm (excluding projections)
Mass	33kg or less (full implementation)



SNMP manageable multiple port optical amplifiers for FTTH video distribution. Selectable are the port number (4, 8, 16 or 32) and the optical output power (11.5, 13, 16 or 20dBm/port).

Item	Specifications
Optical input power	0~10dBm (1,550~1,560nm)
Number of output ports	4/8/16/32
Optical output power	+11.5dBm/port. (Port number=4/8/16/32) +13dBm/port. (Port number=4/8/16/32) +16dBm/port. (Port number=4/8/16/32) +20dBm/port. (Port number=4/8/16)
Optical connector	SC-APC (Angled PC)
Noise figure	5.5dB or less @Pin=0dBm, λ=1,550nm
Monitoring/control interface	SNMP/WEB/TELNET/Dry contact
Power supply/power consumption	AC100V/95W-185VA or less (depending on models) 1U: 481(W)×44(H)×400(D) mm (4 port products upto 13dBm/port.) 2U: 481(W)×88(H)×400(D) mm (4, 8 and 16 port products.) 3U: 481(W)×132(H)×400(D) mm (32 port products.) * Depth (D) excludes protrusions.
Dimensions	1U: 9kg or less / 2U: 13kg or less / 3U: 14.5kg or less
Mass	1U: 9kg or less / 2U: 13kg or less / 3U: 14.5kg or less

5

Optical Amplifier (pizza box type)

FH-FA-20xx□



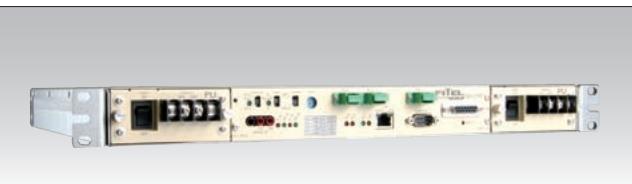
SNMP manageable single port optical amplifiers for video transmission, with 1U height compact chassissis (19" rack mountable).

Item	Specifications
Wavelength	1,550~1,560nm
Optical input power	0~10dBm
Input optical connector	SC-APC (Angled PC)
Optical fiber	1.31μm zero-dispersion, SMF 10/125μm
Optical connector	SC-APC (Angled PC)
Number of optical output	1
Optical output power	FH-FA-2014A 13.0dBm, FH-FA-2015A 16.5dBm, FH-FA-2016A 19.0dBm, FH-FA-2017A 22.0dBm
Noise figure	5.0dB or less (@Pin=0dBm)
Monitoring/control interface	SNMP/WEB/TELNET/Dry contact
Alarm	Loss of input, Output deterioration, LD current, LD temperature, PU, FAN, etc.
Status monitor	Optical input power, optical output power, LD current, LD temp., etc.
Control	Enable/ disable pump LDs, etc.
LED	IN, PU, PU1, FAN, FAIL: Red LED turns on in case of alarm. LD : Green LED turns on in case that the pump LDs are enabled. ACT: Green LED turns on in case that power is supplied properly.
Total alarm contact output	CRITICAL/MAJOR/MINOR (Alarm contact outputs are made by assigning each alarm to CRITICAL, MAJOR or MINOR. The assignment configuration can be changed.)
Power supply/ power consumption	AC100V 28W/56VA or less (13dBm), 30W/60VA or less (16.5dBm), 35W/70VA or less (19dBm), 50W/100VA or less (22dBm)
Dimensions/Mass	483(W)×400(D)×43.7(H) mm (excluding projections) /9kg or less

6

Optical Switch

FH-SW-210xL



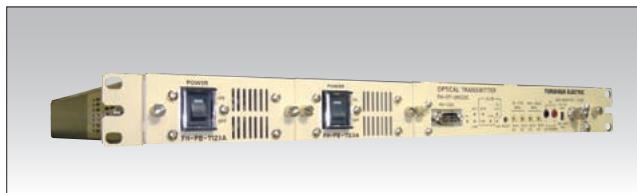
The optical switch is optimum for redundant configuration of optical transmission channel. It is also compatible with SNMP, and automatic switching and forced switching would also be possible at remote sub-central office.

Item	Specifications
model	FH-SW-2101L FH-SW-2102L
Wavelength	1,530~1,570nm 1,280~1,340nm
Number of terminals	2 inputs (lines A and B) / 1 output
Optical connector	SC-APC(Angled PC), SC-SPC #Can be designated at the time of ordering
Max. input level	+23dBm +16dBm
Insertion loss	2dB or less 2.3dB or less
Isolation	50dB or more
Input section	Automatic switching threshold level: Setting is possible between -10dBm and +17dBm Setting is possible between -10dBm and +5dBm
Output mode selection	Switching time: 50ms or less
Operation mode selection	Auto: switches optical channel automatically or by remote control; A/Fix/B/Fix: fixes optical channel for operation
Main line selection (Remote/A/B)	Remote: designates main line by remote control; A: operates line A as main line; B: operates line B as main line
Return mode selection (Auto/Manual)	Auto: returns automatically when the main line has recovered; Manual: does not return automatically even when the main line has recovered
Power supply/power consumption	AC100V or DC-48V/AC35VA or less DC15W or less
Dimensions	480(W)×397(D)×43.7(H) mm (excluding projections)
Mass	Approx. 9kg

7

Ultra Broadband Optical Transmitter (2.6GHz-compatible)

FH-OT-26023C



The transmitter sends CATV transmission signals between 70 and 770MHz, and BS and CS-IF signals between 950 and 2,602 MHz by converting them into optical intensity modulated signals.

Item		Specifications
Input section	Transmission frequency band	70~770MHz, 950~2,602MHz
	Max. transmission channel	11ch (analog), 80ch (digital) (70~770MHz) (950~2602MHz) 36ch(BS-CS-IF)
	RF signal input level	76dB μ V (analog), 66dB μ V (digital) (70~770MHz) (950~2602MHz) 76dB μ V(BS-CS-IF)
Output section	Light-emitting element	Laser diode
	Optical output wavelength	1,550nm band
	Optical connector	SC-APC(Angled PC)
	Optical output power/optical output port	+9dBmW±1dB
Performance	CNR (Note 1)	46dB or more (70~770MHz), 26dB or more (950~2,602MHz)
	CSO (Note 2)	-56dB or less (77~770MHz)
	CTB (Note 2)	-56dB or less (77~770MHz)
	IM3 (Note 2)	-59dB or less (950~2,602MHz)
	IM2 (Note 2)	-36dB or less (950~2,602MHz)
	Power consumption	50VA or less
	Dimensions	480(W)×401(D)×43.7(H) mm(excluding projections)
	Mass	3.4kg or less

Note 1: Performance when paired with the company's optical receiver (fiber length: 20km, optical reception level: -8dBmW)

Note 2: Performance when paired with the company's optical receiver (fiber length: 20km, optical reception level: -2dBmW)

8

DWDM External Modulation Optical Transmitter

FH-OT-8601B



This is an optical transmitter for long-distance transmission of RF broadcast signals. Multiple-channel, long-distance transmission of video signals is possible in combination with optical amplifiers. It is externally modulated, compatible with DWDM wavelength of ITU-G, and can be multiplexed in various ways. The transmitter can also be made compatible with the L-band.

Item		Specifications
Input section	Transmission frequency band	70~770MHz
	RF input power	80dB μ V
	RF monitor level/connector	-20dB over input power/F type
	Optical output wavelength	1,550~1,560nm, 1,570nm (ITU-grid)
	Optical output wavelength adjustable range	±100GHz (in steps of 50GHz)
	Optical output power/optical output port	+8.5dBm (standard)/2 ports
	SBS suppression	Can be set between +13.0 to +19.0dBm (in steps of 0.5dB)
Performance	RF return loss	15dB or more
	Relative intensity noise (RIN)	-158dB/Hz or less (-160dB/Hz as standard)
	CNR (Note)	50.0dB or more
	CSO (Note)	65.0dB or more
	CTB (Note)	65.0dB or more
Others	External control terminal	Monitoring and control are possible with Ethernet 10/100 interface, Web browser software and SNMP
	Power supply/power consumption	AC100V/80VA or less
	Dimensions	480(W)×464(D)×49(H) mm(JIS), 483(W)×464(D)×44.5(H) mm(EIA) (excluding projections)
	Mass	12kg or less

Note: Performance when paired with the company's optical receiver (at optical input of 0dBm)

9

E-PON Optical Line Terminal(3U Type)

FITELwave AG1600E



This is a slimmer version of AG1600. The accommodation efficiency improves by 60% .

Item		Specifications
Transmission medium	1.3μm zero-dispersion optical fiber	
Optical wavelength	Downstream: 1,480~1,500nm; Upstream: 1,260~1,360nm	
Allowable optical transmission loss	29dB as a standard (including power penalty of 1dB)	
Number of optical branches	Up to 64 branches per PIF card	
Configuration	Power supply: 2 units	
	Fan: 2 units	
	SV: 1 unit	
	PIF: 16 units	
PON interface (PIF)	100BASE-TX/1000BASE-T	
	Auto-Negotiation/Fixed (full duplex/half duplex)	
Power supply	AC100V~240V	
Dimensions	480(W)×380(D)×130(H) mm(excluding projections)	
Mass	20kg or less(full implementation)	

10

E-PON ONU for Communication

FITELwave AG20E (L)



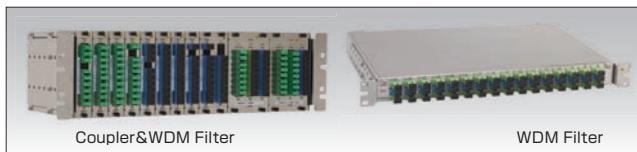
FITELwave AG20E (L) is E-PON ONU that can offer up to a 1Gpbs service to subscribers, when connected with the E-PON optical line terminal.

Item		Specifications
Transmission medium	1.3μm zero-dispersion optical fiber	
Optical wavelength	Downstream: 1,480~1,500nm; Upstream: 1,260~1,360nm	
Allowable optical transmission loss	29dB as a standard (including power penalty of 1dB)	
Structure	Optical fiber surplus length storage section, AC adapter	
LAN port 1	10BASE-T/100BASE-TX/1000BASE-T	
	Auto-Negotiation/Fixed (full duplex/half duplex)	
	Auto MDI/MDIX	
LAN port 2	10BASE-T/100BASE-TX	
	Auto-Negotiation/Fixed (full duplex/half duplex)	
	Auto MDI/MDIX	
Power supply	AC100V, 10W or less	
Dimensions	35(W)×158(D)×114(H) mm(excluding projections) (tentative)	
Mass	Main body: 0.5kg or less, AC adaptor: 0.4kg or less	

11

Optical Distribution/WDM coupler

FWM Series



■Coupler

Item	Specifications
Model	FWM-201-FW-B201A 1-port 2-port 4-port 8-port 16-port
Applicable fiber	SM fiber
Terminal connector (Note)	SC/APC
Applicable adapter	SC with shifter/APC adapter (green)
Type	1x2 (1 units) 1x4 (2 units) 1x8 (1 units) 1x16 (1 units)
Insertion loss	≤0.8dB or less 1.7dB or less 3.5dB or less 7.0dB or less
Isolation	≥50dB or more
Unit occupation width when sub-socket-mounted	1.38B or less 1.78B or less 3.58B or less 7.05B or less
Number of units accommodated in sub-FWM-FD99	1 2
Dimensions (EA102 3U)	480(W) x 271(D) x 132(H) mm (excluding projections)
Mass	●●●●

Note: Compatibility with SPC connector is also available

■WDM Filter

Item	Specifications
Model	FWM-301-FW-B301A 1-port 2-port 4-port 8-port 16-port
Applicable wavelength	1310nm/1490nm/1550nm
C-distribution output	1 output 2 output
Insertion loss	2.0dB or less 5.0dB or less C-D(1.310nm) 2.0dB or less 6.0dB or less D-C(1.490nm) 2.0dB or less 5.0dB or less V-C(1.550nm)
Isolation	≥50dB or more
Optical connector	SC/APC (V, C port) SC-SPC (D port)
Dimensions	480(W) x 271(D) x 132(H) mm (excluding projections)
Mass	●●●●

WDM Filter

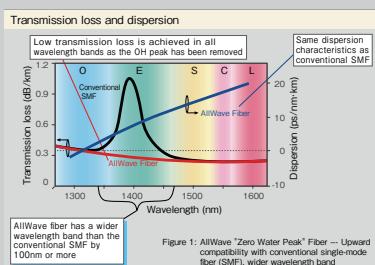
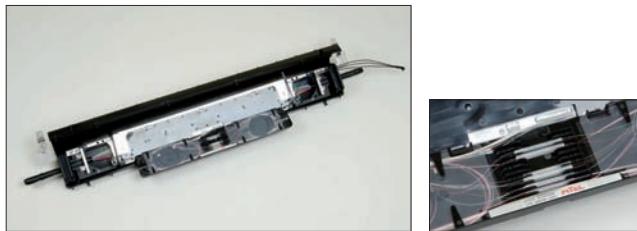
12

Wide Wavelength Band Fiber

AllWave/AWL

- Applications
- For subscriber networks
- Regional adoption of IT

The fiber minimizes loss in the E-band wavelength region, and can be used in all wavelength bands from 1,280 to 1,625nm. It is compatible with the ITU-T G.652 standard of single-mode optical fiber. The performance exceeds the ITU-T G.652.D standard of low OH peak fibers.

Closure with Built-in WDM Filter
FP-CC-W8

Item	Specifications	Remarks
Transmission wavelength	1,310/1,490/1,550nm	
	12.4dB or less	P2→P3(1,310nm)
Insertion loss	12.4dB or less	P3→P2(1,490nm)
	12.4dB or less	P3→P1(1,550nm)
Isolation	25dB or more	P3→P1(1,310nm)
	33dB or more	P3→P1(1,490nm)
	9.5dB or more	P3→P2(1,550nm)
Dimensions	105(W) x 70(D) x 865(H) mm	
Mass	●●kg	

P1 port: video port; P2 port: communication port; P3 port: common (transmission channel) port

Exclusive Aerial Closure
J398□

Model	Fiber type	Connections per tray	Connected cores per tray	Max. tray mounted	Max. cores connected
J398S	Single core	12	12	2	24
	2-core ribbon	12	24	2	48
	4-core ribbon	12	48	2	96
J396B J396S	Single core	12	12	2	44
		20	20	Coupler case→1	
	2-core ribbon	8	16		64
J396S	2-core ribbon	16	32	Coupler case→1	
	4-core ribbon	8	32		104
J396B J396S	4-core ribbon	10	40	Coupler case→1	

* Max. number of cables fed in (one side) : 2 lines + 6 lines of drop cable, or 1 line + 12 lines of drop cable

* Applicable outer diameter of cables fed in: 9 to 22 mm for trunk cables, 9 to 17 mm for branch cables,

* Dimensions: 867(L) x 68(W) x 117(H) mm
* Mass: 3kg
* Waterproofing properties: Waterproofing of grade 4, JIS C 0920

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FWM Series

■ Wide Wavelength Band Fiber
AllWave/AWL

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FP-CC-W8

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J398□

■ Exclusive Aerial Closure
J396□

■ Exclusive Closure for Drop Cable
J395L

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FWM Series

■ Wide Wavelength Band Fiber
AllWave/AWL

■ Closure with Built-in WDM Filter
FP-CC-W8

■ Exclusive Aerial Closure
J398□

■ Exclusive Closure for Drop Cable
J395L

■ Optical Distribution/WDM coupler
FWM Series

■ Wide Wavelength Band Fiber
AllWave/AWL

■ Closure with Built-in WDM Filter
FP-