OPTICAL RECEIVER UNIT [ONU860-1-22-W-x]
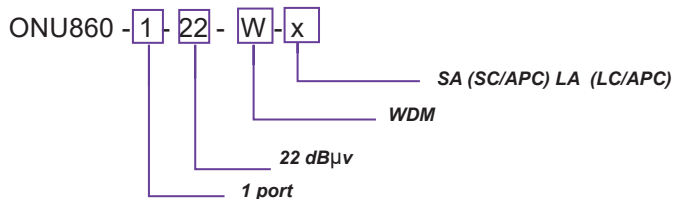
Fiber Products, Premise

Taikan

Description

Taikan's ONU860-1-22-W-x is a high performance, economical terminal device designed for FTTH Networks The optical receiver has built in automatic gain control and CWDM. This design is ideal for triple wavelength systems and also operable with EPON and GPON networks.

Features

- 47-1050 MHz Bandwidth with Excellent Flatness (<+0.75)

- Compact Durable Housing , Easy for Installation

- High Output Level to Support Several Subscribers

- Low Power Consumption

- Wide Dynamic Receiving Optical Power Range

- Low Noise (3.8 % Modulate, -10dBm Receive, CNR ≥ 46.3 dB)

Ordering Information

ONU860 - 1 - 22 - W - x

- x ——— SA (SC/APC) LA (LC/APC)
- W ——— WDM
- 22 ——— 22 dBµv
- 1 ——— 1 port

* Image is for reference only, product may appear different

Model Number	Description
ONU860-1-22-W-x	Optical Receiver Unit 1 Port, 22 dBµV, WDM , SC/APC or LC/APC Connector

Optical Specifications

CATV Work Wavelength	1540-1563 nm
Pass Wavelength	1310, 1490 nm
Channel Isolation	$\geq$ 40 dB (1550 & 1490nm)
Responsivity	$\geq$ 0.85 (1310 nm)
	$\geq$ 0.9 (1550nm)
Receiving Power	+2~10 (Analog TV CNR > 46 dB)
	+2 ~24 (Digital TV (MER>29 dB)
Optical Return Loss	$\geq$ 55 dB
Optical Fiber Connector	SC/APC , LC/APC

RF Specifications

Work Bandwidth	47~1050 MHz
Flatness	$\leq$ +0.75 dB
Output Level	>85 dBµV (Analog TV PIn= + 2~-10 dBm)
	>82 dBµV (Digital TV Pin = -19 dBm)
ALC (AGC) character	$\leq \pm$ 1.0 dB Pin = -1~17 dBm)
Output Level Adjust	0~18 dB
Return Loss	$\geq$ 14 dB (45-1050 MHz)
Output Imepdance	75
Output Port Number	1
RF tie- in	F- Female

Analog TV Link Feature

Test Channel	59 CH (PAL-D)
OMI	3.8 %
CNR1	51.8 dB (Pin = -2dBm)
CNR2	46.3 (Pin=-10 dBm)
CTB	$\leq$ -65 (Pin: 0~10 dBm)
CSO	$\leq$-61 (Pin: -1~10 dBm)

Digital TV Link Feature

OMI	4.3 %
MER	≥ 36.0 dB (Pin = -19 dBm)
	≥ 29 dB (Pin = -24 dBm)
BER	< 1.0 E-9 (PIn: 0 ~24 dBm)

General Specifications

Power supply	+6 VDC
Maximum power consumption	≤ 2.5 W (+6 VDC, 350 mA)
Working temperature	-20 ºC ~ +55 ºC (-68 ºF ~ 131 ºF)
Storage temperature	-40 ºC ~ 85 ºC (-104 ºF ~185 ºF)
Dimensions	50 x 88 x 25 mm (1.96 x 3.46 x 1 in.)