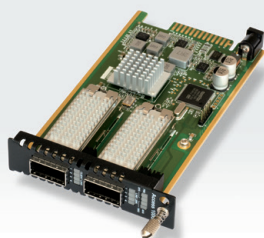


## A Wide Lineup, Flexible Configurations.

We deliver access line solutions tailored precisely to your needs.



### Transponder Card & Media Converter

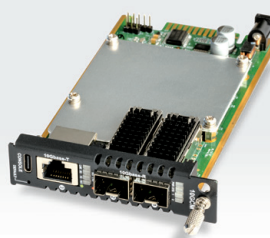


PlusRepeater  
ACCESS 100G

#### 100G Transponder PlusRepeater Access 100G

##### Features

- 100GbE with QSFP28-SR4/LR4/ER4/ZR4
- BERT test function
- DMI function for QSFP28 module
- 100G QSFP28 Bidi Transceiver (LR1/ER1)
- 100G QSFP28 DCO Transceiver

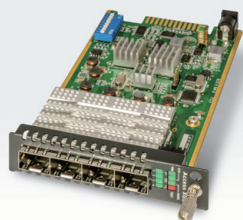


NEW

#### 10G Card with in-band monitoring PlusRepeater Access XG2 Advance

##### Features

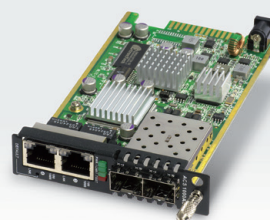
- Supports in-band monitoring: EtherOAM functionality can configure receiving-side devices. Centralized control can be established at the center. And main functionality as follows are supported
- up to 10GBase-T • BERT test function • wavelength-tunable SFP
- Link transfer (LLF) function and transparent link (TLLF) transfer function



#### Multi-Rate Transponder PlusRepeater Access XG2

##### Features

- Multi-rate supports 1Gbps ~ 14Gbps
- Protocol Transparent 3R fiber Media Transponder / Repeater
- Dual channel transmission
- C-band tunable DWDM SFP+ Transceiver
- DMI function for SFP+ module



#### GbE Media Converter PlusRepeater Access 2000

##### Features

- 2x 10/100/1000Base-T and 2x 100/1000Base-X SFP
- RMON counter
- Dying gasp
- DMI function for SFP module
- Local / Remote IEEE 802.3ah OAM / IP management

### Optical Amplifier & WDM Filter Card



#### Optical Amplifier PlusRepeater Access EDFA-B/P

##### Features

- Booster type / Pre-Amplifier type
- Automatic Gain Control (AGC)
- Input/Output Power Monitoring
- Up to 21 dBm output power (Booster)
- Up to 17 dBm output power (Pre-amplifier)
- With Gain flatness filters (GFF)
- LC/UPC connector



#### CWDM Mux / Demux PlusRepeater Access CWDM

##### Features

- Low Optical Insertion Loss
- 8ch CWDM: CWDM (1471/1491/1511/1531/1551/1571/1591/1611nm)
- 16ch CWDM: CWDM (1271/1291/1311/1331/1351/1371/1431/1451/1471/1491/1511/1531/1551/1571/1591/1611nm)
- Standard LC connectors



#### DWDM Mux / Demux PlusRepeater Access DWDM

##### Features

- Low Optical Insertion Loss
- 4ch DWDM: DWDM (CH29/CH31/CH33/CH35 and CH53/CH55/CH57/CH59)
- Standard LC connectors

### PlusRepeater Access Chassis



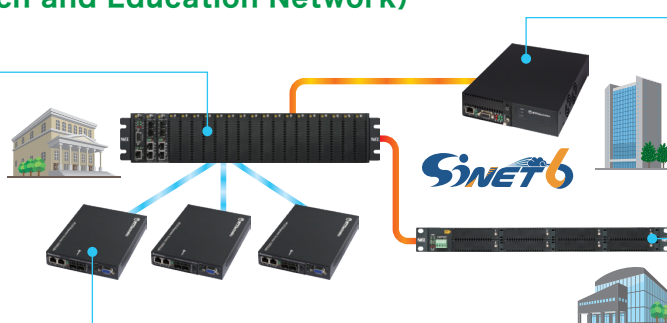
- ① PlusRepeater Access CH08 Chassis (1U 8-slot)
- ② PlusRepeater Access CH20 Chassis (2U 20-slot)
- ③ PlusRepeater Access CH02 Chassis (BOX Type)

## Application

### ► NREN (National Research and Education Network)

100M/1G/10G card can be installed and supports up to 38 channels (with 100M/1G), Also supports Wavelength Division Multiplexing(WDM) transmission with a WDM filter.

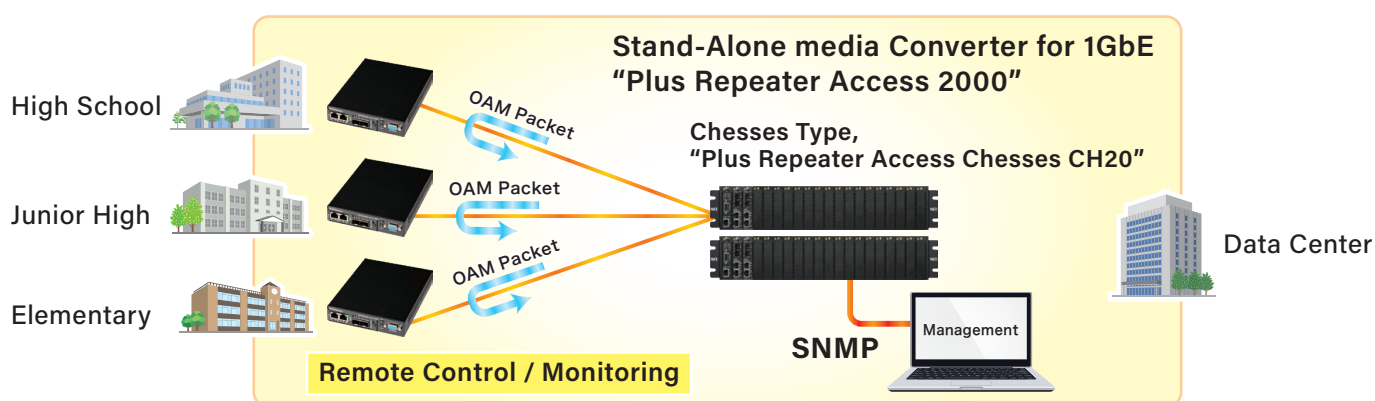
Supporting 100M and 1G for intra-campus connectivity



1G and 10G can be installed in a chassis within the SINET6 rack standard.

Can connect campuses with 1G/10G high-capacity and long-haul transmission

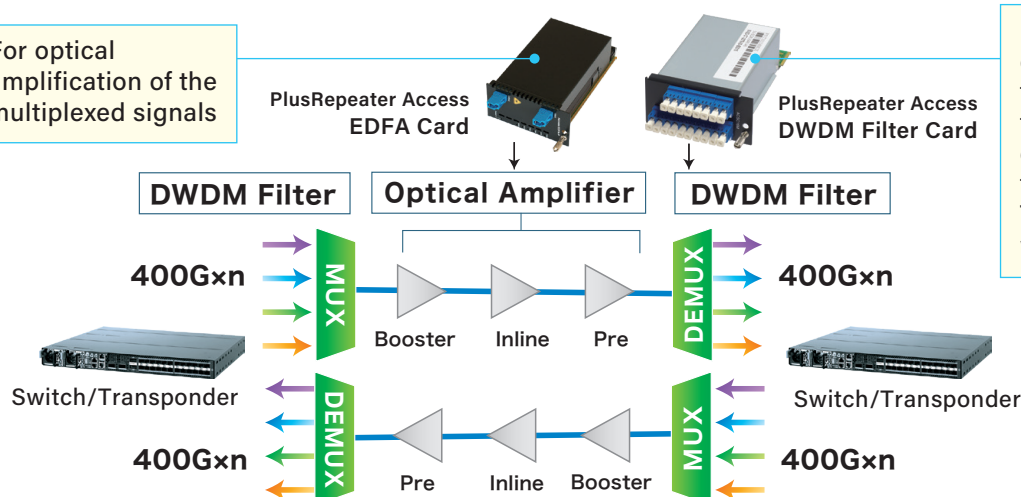
### ► Government NW Project



### ► Application of Optical Open Line System (OOLS) to Wavelength Multiplexing and Optical Amplification

OOLS is a concept that enables interoperability between equipment from different vendors by functionally disaggregating WDM systems.

For optical amplification of the multiplexed signals



By multiplexing digital coherent signals output from switches and transponders, the system enables high-capacity transmission of up to 6.4 Tbps (400 Gbps × 16 wavelengths).



## NTT Innovative Devices Corporation

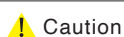
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