

# 12G-SDI/6G-SDI/3G-SDI/HD-SDI/SD-SDI Repeater EE12G-100



MAW269E\_V1.0

## Safety Precautions



### CAUTION

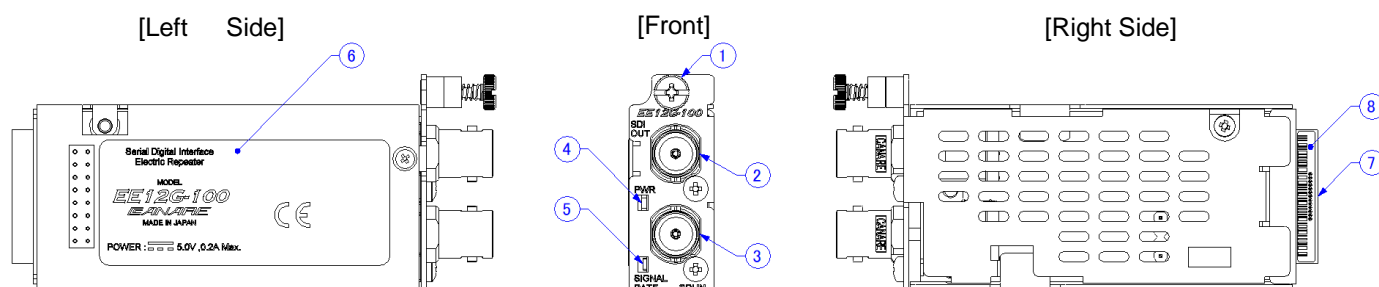
- Do not block the vents. This raises the internal temperature and may cause damage.
- Ensure the BNC connectors having the dust caps when not operated.

## Instruction Manual

### General Description

- An electric repeater for 12G-SDI, 6G-SDI, 3G-SDI, HD-SDI, SD-SDI and DVB-ASI (multi rate, multi format) video transmission
- Cable equalizer, Re-clocker and Cable driver equipped
- Capable of receiving and transmitting pathological test pattern(SMPTE PR-178,198 Check Field Test Pattern)
- Recommended to Install to Canare's plug-in platforms

### Outline & Functions



1) Captive Screw	To fix this product to the platform.
2) BNC Connector (SDI OUT)	For connection with the 75ohm coaxial cable to output the repeating signal.
3) BNC Connector (SDI IN)	For connection with the 75ohm coaxial cable to repeat the input signal.
4) Status LED (PWR)	Light on when power on.
5) Status LED (SIGNAL RATE)	Lock to 12G-SDI / 6G-SDI : Solid Blue Lock to 3G-SDI / HD-SDI : Solid Green Lock to SD-SDI / DVB-ASI : Solid Yellow Unlock : No lighting
6) ID Label	Describes the model name, rating, certifications, and so on.
7) DIN Connector(16-pin)	For the power supply and the status signals output.
8) Connector Label	Production No. described.

### How to mount to the platform

1. Insert this product into the mounting slot of the platform\* by gripping the captive screw, as shown in Figure 1.  
Note: platform\*: 6PSC, 161UPSC
2. Align the captive screw with the corresponding the screw hole in the platform, tighten securely with a philips head screw driver to secure this product.
3. Connect the input/output coaxial cables to this product's BNC connectors respectively.



Figure.1 Repeater installation

### Specifications

#### Transmission signals and rates with re-clocking

12G-SDI	: 11.88Gbps, 11.88/1.001Gbps (SMPTE ST 2082-1)
6G-SDI	: 5.94Gbps, 5.94/1.001Gbps (SMPTE ST 2081-1)
3G-SDI	: 2.97Gbps, 2.97/1.001Gbps (SMPTE ST 424)
HD-SDI	: 1.485Gbps, 1.485/1.001Gbps (SMPTE ST 292-1)
SD-SDI	: 270Mbps (SMPTE ST 259)
DVB-ASI	: 270Mbps

#### Cable Length Equalization (Typ., CB Signal, BER<=1E-12)

12G-SDI/6G-SDI	:100m (Use L-5.5CUHD)
3G-SDI	:120m (Use L-5CFB)
HD-SDI	:250m (Use L-5CFB)
SD-SDI/DVB-ASI	:500m (Use L-5CFB)

#### EMC

: FCC part15 Subpart B  
: EN55032  
: EN55024

Operating Temperature	: -20℃ to 60℃ (no condensation)
Storage Temperature	: -40℃ to 85℃
Power Source	: +5VDC±0.5V
Current Consumption	: 200mA(Max)
Weight	: Approx. 85g
Dimensions	: 78.4mm(D) × 43.4mm (H) × 17mm (W) (excluding connectors)
Accessories	: BNC connector dust cap ..... 2

Note1). The above-mentioned transmission signals(transmission speed) are output with being re-clocked, while others are output without being re-clocked. In case of transmitting the signal except the above-mentioned transmission signals, please make sure in advance whether it is possible to transmit the signal.

Note2) This product does not have a mute function of the output port.

The exterior features and specifications in this document are subject to change due to modification without prior notice.