OPTION MODULES

Option Module A, B, C, D/E, GM/GR, J, K, L, M, N, O

DESCRIPTION

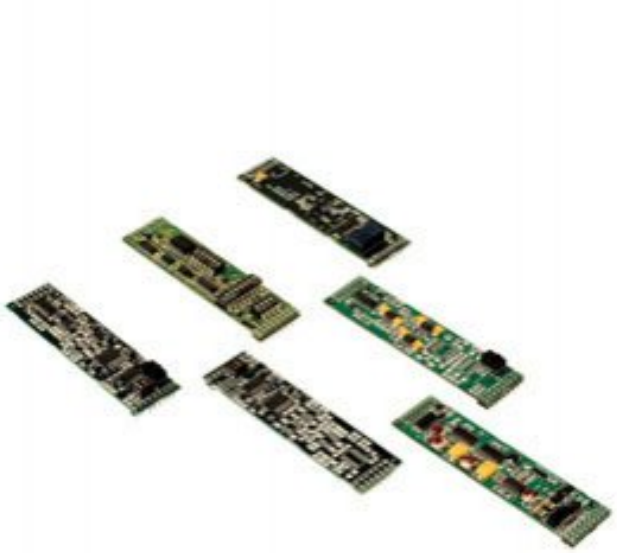
The option module is a small, plug-in circuit card module that offers the capacity to transport various signal types over a fiber transmission link. The option module is only available for selected fiber optic transmitter and receiver models of the 9000 series.

FEATURES

Unrivalled flexibility

User-definable service per Option Module channel:

- (Supervised) Contact closure
- (Stereo) Audio
- RS-422/485 and RS-232 data
- Intercom (AiPhone)
- Audio Amplifier (SelecTone)
- Fire door contact closure



Description

The Optelecom option module is a small, plug-in circuit card module that offers the capacity to transport various signal types over a fiber transmission link. The option module is only available for selected fiber optic transmitter and receiver models of the 9000 series. If the basic operation of the host link is unidirectional (simplex), the video and any additional signal transmission capabilities operate only in the same direction as the video. If the operation of the host link is bidirectional (duplex), the additional signals operate in both directions on the fiber. The option modules come factory pre-installed and are specially designed to provide maximum flexibility in virtually any combination of audio, data, contact closures, intercom, or Audio Amplifier channels. Refer to the data sheet of 9000 series models that support option modules for ordering information.

Option Module Type A - Duplex audio	
Frequency response	20 Hz to 20 kHz
Input connections	Balanced or unbalanced
Input impedance	600 or 47 , selectable
Input level	1 Vpp, nominal; 5.5 Vpp, maximum
Output level	Equivalent to input level
Output connections	Balanced or unbalanced, selectable
Signal-to-noise ratio	>78 dBw

Option Module Type B - Duplex data	
Data input types	RS-232, RS-422/485
Data rate	DC to 115 kbps (RS-422/485 and RS-232); 32 kbps (Manchester)

Option Module Type C - Duplex contact closure	
Input current	6 mA (maximum); 0.6 mA (minimum)
Maximum isolation voltage	50 Vdc
Output contact rating	300 mA at 30 Vdc

Option Module Types D and E - Simplex stereo audio	
Frequency response	20 Hz to 20 kHz
Input connections	Balanced or unbalanced
Input impedance	600 or 47 , selectable
Input level	1 Vpp, nominal; 5.5 Vpp, maximum
Output level	Equivalent to input level
Output connections	Balanced or unbalanced, selectable
Signal-to-noise ratio	>78 dBw

Option Module Types GM and GR - Intercom	
Frequency response	200 Hz to 3.7 kHz
Input connections	Twisted pair from AiPhone LEM master, and LE series remotes
Power remote end	2.0 A (signaling); 350 mA (normal)
Power master end	350 mA (normal)
Contact closure	
Input current	6 mA (maximum); 0.6 mA (minimum)
Maximum isolation voltage	50 Vdc
Output contact rating	300 mA at 30 Vdc

Option Module Types J and K - Audio Amp	
Frequency response	20 Hz to 20 kHz
Input connections	Balanced line signal
Input impedance	95 k
Input level	25 Vrms
Output level	Equivalent to input level
Output connections	Balanced line signal

Specs

Option Module Types J and K - Audio Amp	
SNR (A-weighted)	>78 dB

Option Module Type L - 24Vdc input contact closure	
Input voltage	36 Vdc maximum
Input current	6 mA (maximum); 0.6 mA (minimum)
Maximum isolation voltage	50 Vdc
Output contact rating	300 mA at 30 Vdc

Option Module Type M - Supervised contact closure door-end	
Input current	6 mA (maximum); 0.6 mA (minimum)
Series resistance	1, 2, 3 k

Option Module Type N - Supervised contact closure controller-end	
Output contact rating	300mA at 30Vdc
Series resistance	1, 2, 3 k

Option Module Type O - 24Vdc fire door contact closure	
Input voltage	36 Vdc maximum
Input current	6 mA (maximum); 0.6 mA (minimum)
Maximum isolation voltage	50 Vdc

Ordering information	
Option Module A	Audio module
Option Module B	Data module
Option Module C	Contact closure mudule
Option Module D	Simplex stereo audio input module
Option Module E	Simplex stereo audio output module
Option Module GM	Aiphone intercom module, master end
Option Module GR	Aiphone intercom module, remote end
Option Module J	Audio Amp, speaker end
Option Module K	Audio Amp, command end
Option Module L	24Vdc input contact closure
Option Module M	Supervised contact closure door-end
Option Module N	Supervised contact closure controller-end
Option Module O	24Vdc fire door contact closure