

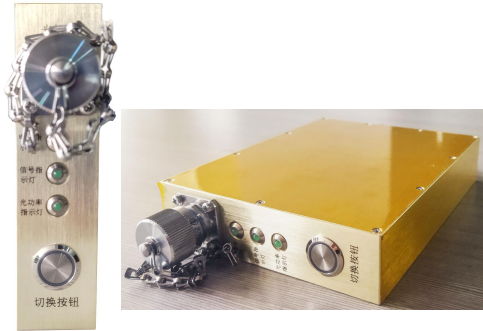
NY069 Series Digital Signal Optical Terminal

➤ Feature

- ※ Strong anti-interference
- ※ Low power consumption
- ※ Light weight

➤ Application

- ※ Digital signal optical communication



Description of NY069 Series

NY069 RS422-CAN equipment uses optical cable as the transmission medium to realize 3-way RS422, 3-way RS232 and 1-way CAN signal communication. Compared with the traditional cable transmission, optical cable transmission has the advantages of wider bandwidth, stronger anti-interference, better confidentiality, lower system power consumption and lighter weight.

Schematic

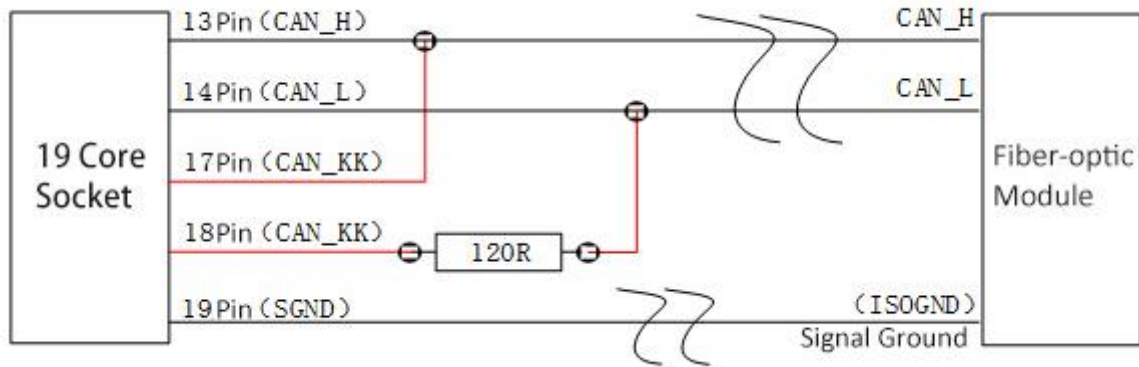


Figure 1 principle block diagram of NY069 series

Power supply

Parameter	Value	Unit
Voltage	+12	V
Current	500	mA
Transfer signal type	3-way RS422, 3-way RS232, 1-way CAN	

Electrical / Optical Characteristics

Y50EX Series 19-pin connector		Wire State	Function	Input / output
1(A)	RS422-TX1+	twisted-pair	Channel 1 of RS422	output
2(B)	RS422-TX1- (RS232_TXD1)			
3(C)	RS422-RX1+ (RS232_RXD1)	twisted-pair		input
4(D)	RS422-RX1-			
5(E)	RS422-TX2+	twisted-pair	Channel 2 of RS422	output
6(F)	RS422-TX2- (RS232_TXD2)			
7(G)	RS422-RX2+ (RS232_RXD3)	twisted-pair		Input
8(H)	RS422-RX2-			
9(J)	RS422-TX3+	twisted-pair	Channel 3 of RS422	output
10(K)	RS422-TX3- (RS232_TXD3)			
11(L)	RS422-RX3+ (RS232_RXD3)	twisted-pair		Input
12(M)	RS422-RX3-			
13(N)	CAN-H	twisted-pair	CAN bus	Two-way, half-duplex
14(P)	CAN-L			
15(R)	GND	-	source	source
16(S)	VCC-12V			
17(T)	KAN-KK(120R)	-	CAN bus 120R load	Short-circuit access load
18(U)	KAN-KK(120R)			
19(V)	IOS-GND	-	Signal ground	In RS232 mode, Pin 19 needs to be grounded with the power supply

Typical curve

- RS422

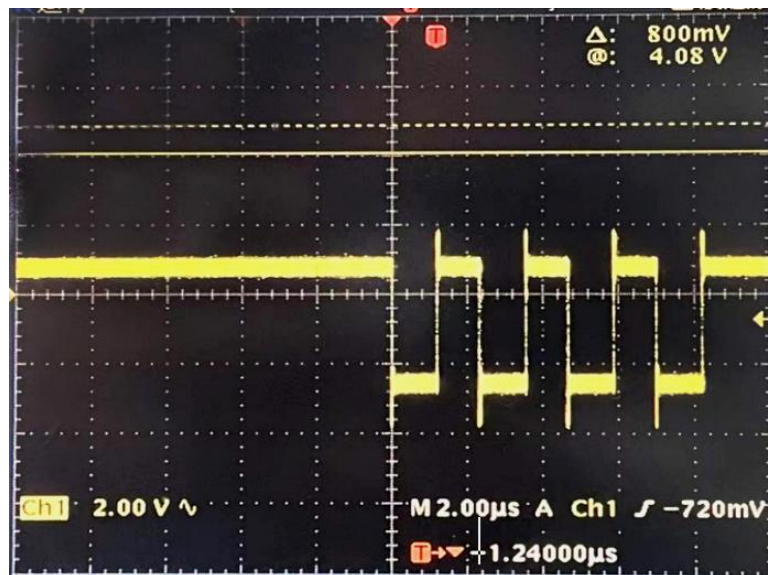


Figure 1 Typical test waveform of the RS422

● RS232

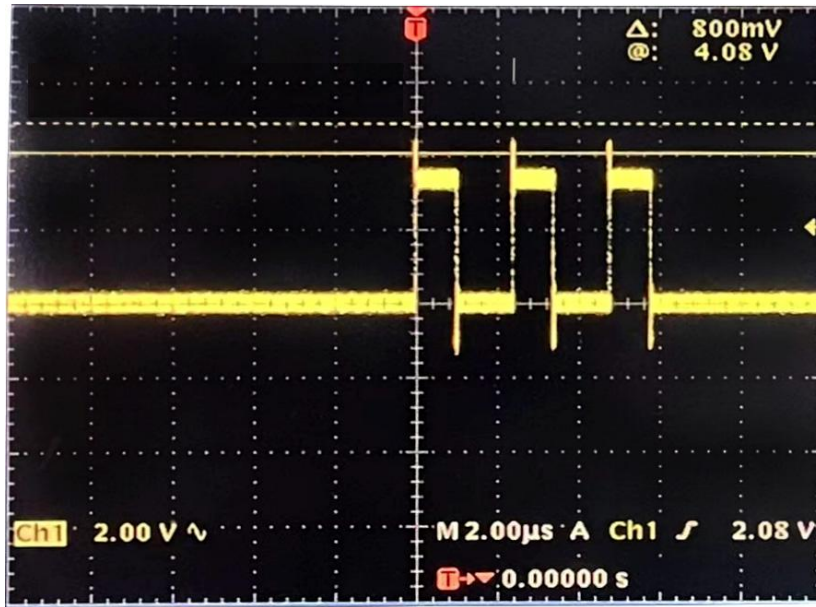


Figure 2 Typical test waveform of the RS232

Dimensions and Interface

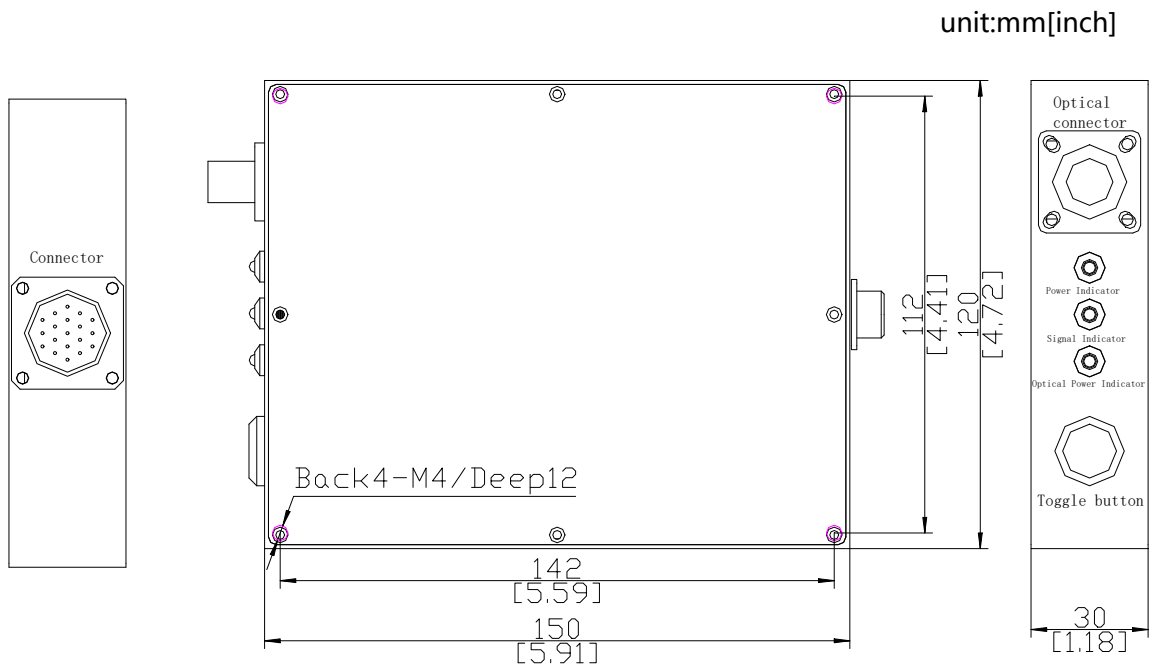


Figure 3 Dimension of NY069 RS422-CAN

- For the definition of NY069 power supply and signal interface, see the Electrical / Optical Characteristics section in this article.