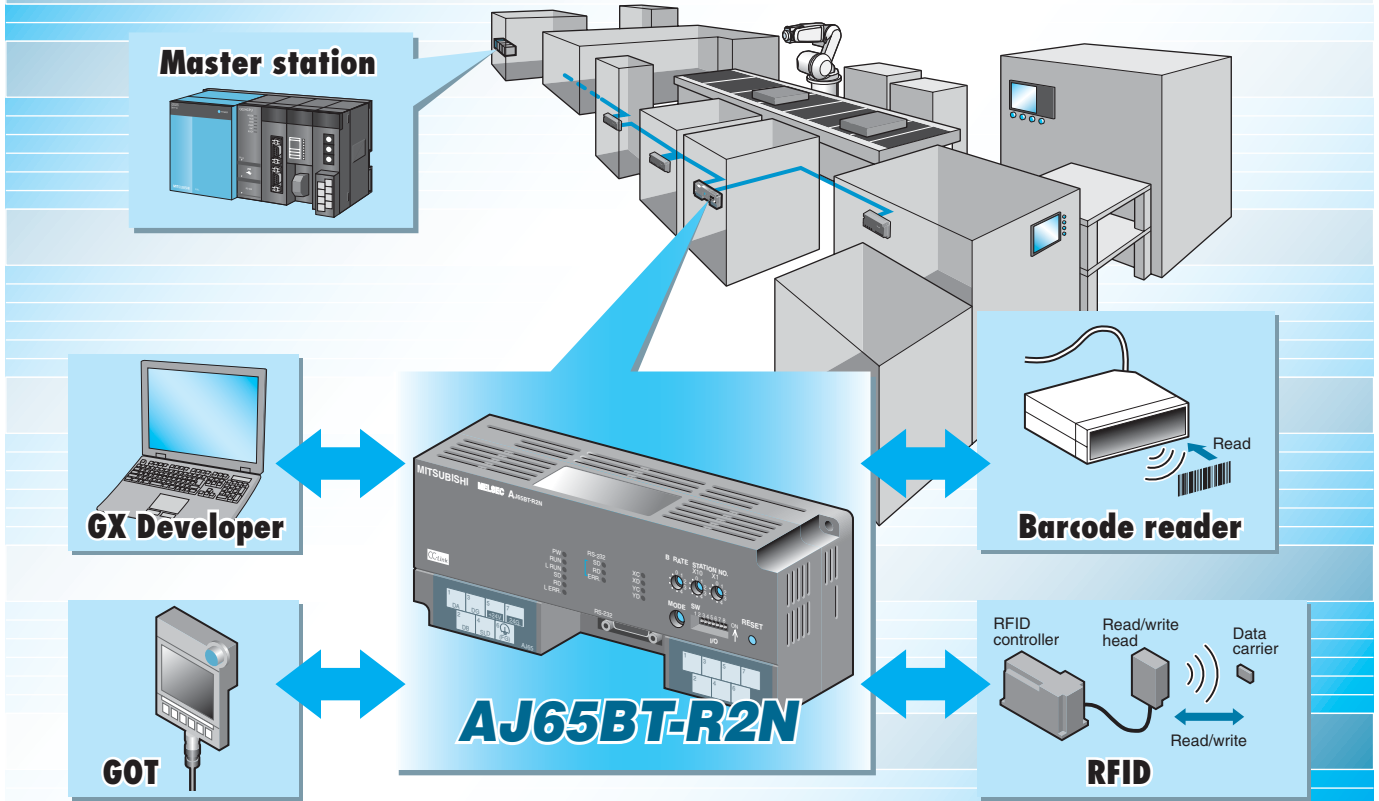


AJ65BT-R2N

RS-232 Interface Module

Improved operability with new functions!

- **Program startup and modification available on site!**
Online operations are available by connecting GX Developer or GOT, improving debug and maintenance efficiency.
- **Supports transmission speed of 115.2 kbps!**
- **Easy to set up when connecting multiple modules!**
Sequence program is simplified, improving program development efficiency.



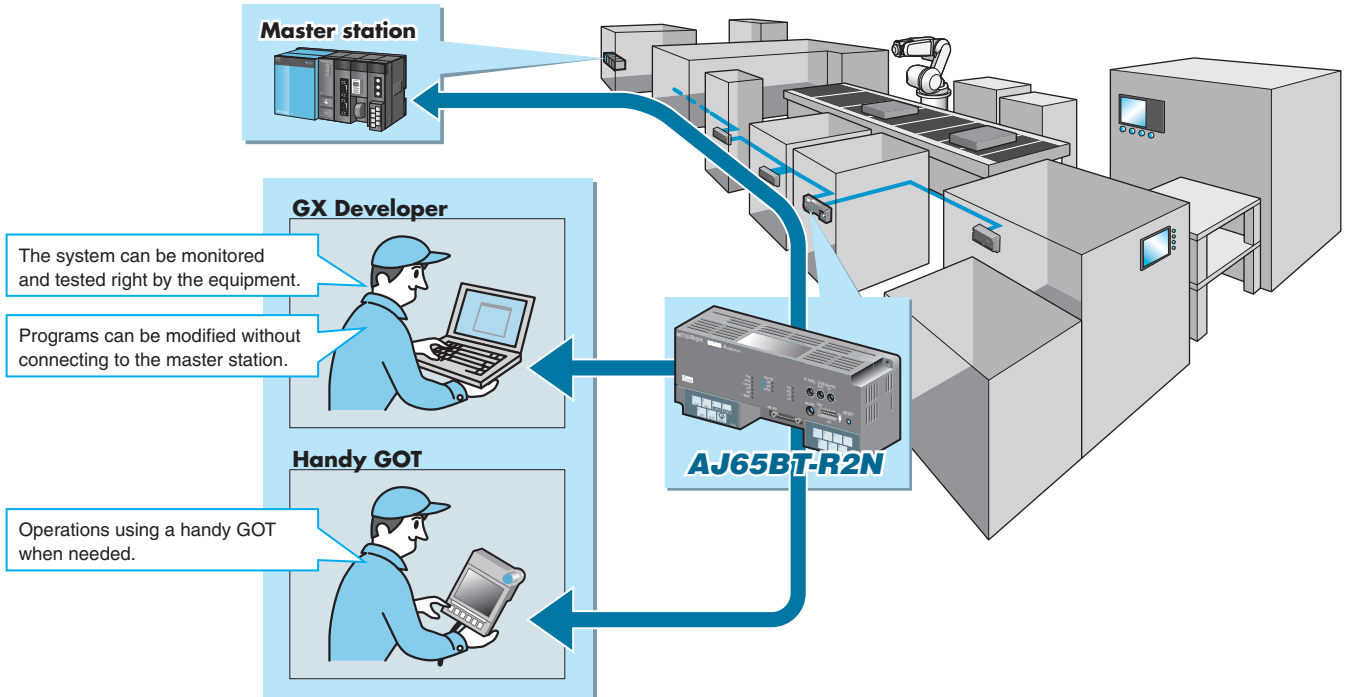
Mitsubishi Electric Corporation Nagoya Works is a factory certified for ISO14001 (standards for environmental management systems) and ISO9001 (standards for quality assurance management systems)



Features

1. Program startup and modification available on site **MELSOFT connection mode**

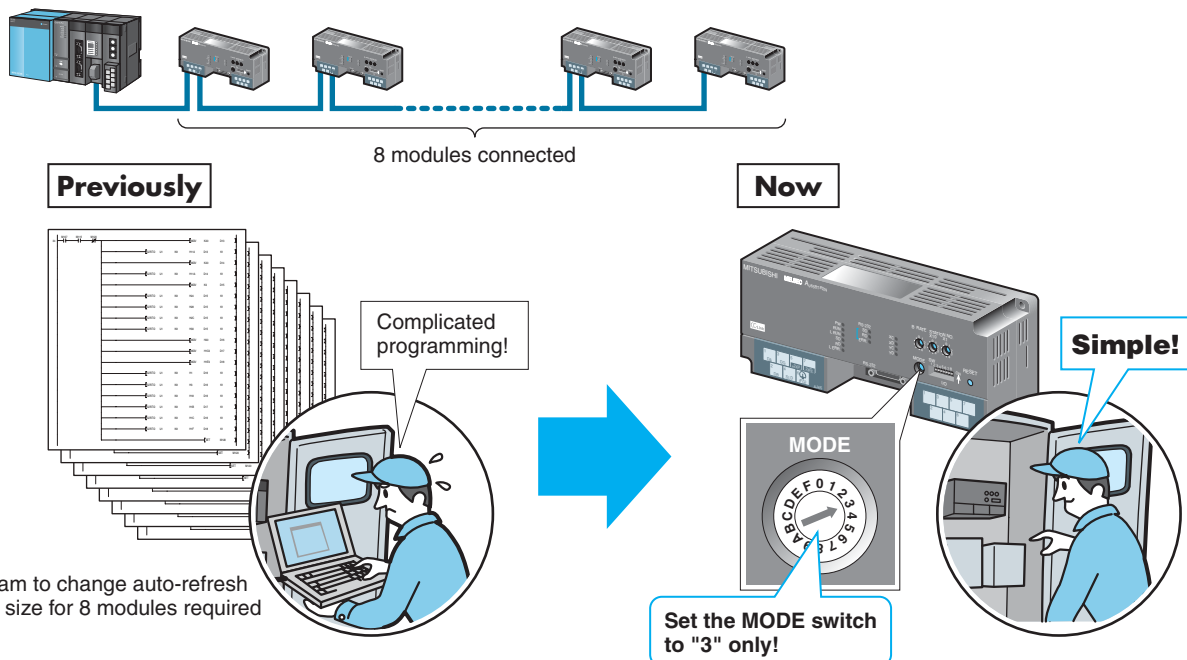
Online operations such as monitoring and testing are available by connecting AJ65BT-R2N to GX Developer or GOT. The program can be started and modified right by the AJ65BT-R2N module (away from the master station), improving work efficiency.



2. Easy to set up when connecting multiple modules! **Nonprocedural protocol mode**

When the buffer memory auto-refresh function is used, the auto-refresh buffer size needs to be changed to connect three or more modules. This can be easily carried out by setting the mode switch. A program for initial settings is no longer required, enhancing development efficiency.

(E.g.) Configuring a system with 8 modules



Performance specifications

Item		AJ65BT-R2N (New model)	AJ65BT-R2 (Previous model)	
RS-232	Interface	RS-232 compliant (D-Sub 9P)		
	Communication method	Full-duplex communication method		
	Synchronization method	Asynchronous method		
	Transmission speed	300, 600, 1200, 2400, 4800, 9600, 19200, 38400 , 57600 *1, 115200 *1 bps	300, 600, 1200, 2400, 4800, 9600, 19200 bps	
	Transmission distance	Up to 15 m		
	Data format	Start bit	1	
		Data bit	7/8	
		Parity bit	1 (vertical parity)/No	
		Stop bit	1/2	
	Error detection	Parity check	Yes (even/odd number)/No	
	Communication control (flow control)	DTR/DSR (ER/DR) control DC1/DC3 control		
OS reception area	5120 bytes			
Protocol	Nonprocedural protocol MELSOFT connection (equivalent to AJ65BT-G4-S3 Q mode)	Nonprocedural protocol		
CC-Link	Transmission path	Bus (RS-485)		
	CC-Link station type	Intelligent device station		
	CC-Link version	Ver.1		
	Connection cable	CC-Link dedicated cable/CC-Link high-performance cable/CC-Link Ver. 1.10-compatible cable		
	Number of occupied stations	1 station (RX/RV: 32 points each, RWw/RW: 4 points each)		
	Number of writes to E ² PROM	Up to 100,000 times		
Dielectric withstand voltage	Between all external DC terminals and ground: 500 V AC for 1 minute			
Insulation resistance	Between all external DC terminals and ground: 10 MΩ or more by 500 V DC insulation resistance tester			
Noise immunity	By noise simulator of 500 Vp-p noise voltage, 1 μs pulse width, and 25 to 60 Hz noise frequency			
Module mounting screw	M4 x 0.7 mm x 16 mm or larger, also mountable with DIN rail			
Applicable DIN rail	TH35-7.5Fe, TH35-7.5Al, TH35-15Fe (conforms to IEC 60715)			
External power supply	24 V DC (20.4 to 26.4 V DC, ripple ratio: within 5%) Current consumption: 0.11 A (TYP. 24 V DC)			
Allowable momentary power failure time	1ms			
General-purpose I/O	Number of input points	2 points		
	Isolation method	Photocoupler		
	Rated input voltage	24 V DC		
	Rated input current	Approx. 7 mA		
	Operating voltage range	19.2 to 28.8 V DC (ripple ratio: within 5%)		
	Max. number of simultaneous input points	100%		
	ON voltage/ON current	14 V or higher/3.5 mA or higher		
	OFF voltage/OFF current	6 V or lower/1.7 mA or lower		
	Input resistance	Approx. 3.3 kΩ		
	Response time	OFF to ON	10 ms or less	
		ON to OFF	10 ms or less	
	Wiring method for common	2 points/common, positive/negative common (sink/source)		
	Number of output points	2 points		
	Isolation method	Photocoupler		
	Rated load voltage	12 to 24 V DC (+20/-15%)		
	Operating load voltage range	10.2 to 28.8 V DC (ripple ratio: within 5%)		
	Max. load current	0.1A/point, 0.2A/common		
	Max. inrush current	0.7 A, 10 ms or less	0.4 A, 10 ms or less	
	Leakage current at OFF	0.1 mA or less		
	Max. voltage drop at ON	0.1 V DC (TYP.) at 0.1 A 0.2 V DC (MAX.) at 0.1 A	1.5 V DC or lower (MAX.) at 0.1 A	
	Output type	Sink		
	Response time	OFF to ON	1 ms or less	2 ms or less
		ON to OFF	1 ms or less (resistance load)	2 ms or less (resistance load)
	External power supply for output	Voltage	10.2 to 28.8 V DC (ripple ratio: within 5%)	
		Current	10 mA (at 24 V DC) (MAX all points ON)	50 mA or lower (TYP. 24 V DC/common) excluding external load current
	Surge suppressor	Zener diode		
	Wiring method for common	2 points/common		
Protection function	Yes	No		
External connections	7-point terminal block (M3.5 screw)			
Applicable wire size	0.75 to 2 mm ²			
Applicable crimping terminal	RAV1.25-3.5, RAV2-3.5 (conforms to JIS C 2805)			
External dimensions	80 (H) x 170 (W) x 47 (D) [mm]	80 (H) x 170 (W) x 63.5 (D) [mm]		
Weight	0.40 kg			

*1: Unless data are sent concurrently from the AJ65BT-R2N and external-device sides in Nonprocedural protocol mode, communication at 57600 bps or 115200 bps is available. In the event of concurrent transmission, an RS-232 receive overrun error (BB23H) may occur.

