

I/O Device Comparison

SLAVE RADIOS

MASTER RADIOS

I/O EXPANSION



FGR2-IOS-C-U

FGR2-IOS-CE-U

FGR2-IO-IOE

I2-IOS-C-U

FGRIO-M

I2-IOM-U

IOE-4440
IOEX-4440

IOE-4422
IOEX-4422

IOE-4404
IOEX-4404

		FGR2-IOS-C-U	FGR2-IOS-CE-U	FGR2-IO-IOE	I2-IOS-C-U	FGRIO-M	I2-IOM-U	IOE-4440 IOEX-4440	IOE-4422 IOEX-4422	IOE-4404 IOEX-4404
WIRED COMMUNICATIONS	INTERFACE									
	Modbus RTU	yes	yes	yes	yes	no	no	yes	yes	yes
	Wire Replacement/Signal Replication	yes	yes	yes	yes	yes	yes	no	no	no
WIRELESS COMMUNICATIONS	Serial 232, 422 and 485	yes	yes	yes	yes	yes	yes	yes	yes	yes
	Frequency	900 MHz	900 MHz	900 MHz	2.4 GHz	900 MHz	2.4 GHz	-	-	-
	Range	60 mi / 100 km	60 mi / 100 km	60 mi / 100 km	20 mi / 32 km	60 mi / 100 km	20 mi / 32 km	-	-	-
POWER SUPPLY	Maximum Output Power	1 W	1 W	1 W	500 mW	1 W	500 mW	-	-	-
	Receiver Sensitivity (10-4 bit error rate)	-110 dBm	-110 dBm	-110 dBm	-107 dBm	-110 dBm	-107 dBm	-	-	-
	Supply Range	6 to 30 V	6 to 30 V	6 to 30 V	6 to 30 V	6 to 30 V	6 to 30 V	7.5 to 28 V	7.5 to 28 V	7.5 to 28 V
	Supply Current, Linked, Modbus, Low Power (12V)	7 mA	7 mA	7 mA	7 mA	70 mA	5 mA	17 mA	17 mA	17 mA
PHYSICAL	Supply Current, Linked, Wire Replacement (12V)	15 mA	15 mA	15 mA	15 mA	70 mA	5 mA	-	-	-
	Supply Current, Max RF Power Transmit (12V)	380 mA	380 mA	380 mA	295 mA	500 mA	295 mA	-	-	-
I/O: GENERAL	Enclosure Type	None	Ruggedized	Expansion	None	None	None	Expansion	Expansion	Expansion
	Total I/O Channels	8	8	8	8	12	12	12	12	12
	Universal Channels	0	0	0	0	0	0	4	4	4
	Input-Only Channels	4	4	4	4	0	0	4	4	4
	Isolated Channels	0	0	0	0	0	0	4	4	4
	Sensor Power	1	1	1	1	1	1	4	4	4
	Link Alarm	0	0	0	0	1	1	0	0	0
I/O: DIGITAL INPUT	Maximum Count	4	4	4	4	4	4	8	8	8
	Isolated	0	0	0	0	0	0	4	2	0
	Pull-up/pull-down resistors	2	2	2	2	0	0	8	8	8
I/O: DIGITAL OUTPUT	Pulse counting, max frequency	2 @ 1 kHz	2 @ 1 kHz	2 @ 1 kHz	2 @ 1 kHz	0	0	8 @ 1 kHz; 4 @ 10 kHz	8 @ 1 kHz; 4 @ 10 kHz	8 @ 1 kHz; 4 @ 10 kHz
	Maximum Count	2	2	2	2	4	4	4	6	8
	Closed Conductor to Ground	2	2	2	2	4	4	4	4	4
I/O: ANALOG INPUT	Isolated Relay	0	0	0	0	0	0	0	2	4
	Maximum Count	4	4	4	4	0	0	8	8	8
	0 to 3.3 V	4	4	4	4	0	0	8	8	8
	1 to 5 V	2	2	2	2	0	0	8	8	8
	0 to 10 V	0	0	0	0	0	0	8	8	8
I/O: ANALOG OUTPUT	4 to 20 mA	0	2	0	0	0	0	8	8	8
	Maximum Count	2	2	2	2	4	4	4	4	4
	4 to 20 mA	2	2	2	2	0	0	4	4	4
	1 to 5 V	0	0	0	0	4	4	0	0	0