

WRC Discrete I/O Mega Table

COMPARISON

Discrete I/O Modules

PRODUCT	STYLE	PRODUCT	STYLE	PRODUCT	STYLE	PRODUCT	STYLE	TYPE	FIELD VOLTAGE	LOGIC VOLTAGE	NOTES
1781-IA5S	Slim	WRC4-IA5S	Integral	1781-IA5M	Mini	IAC5	Classic 0.6"	Input	90-140 V ac/dc	5 V	1, 2, 4
1781-IAYS	Slim	WRC4-IAYS	Integral	1781-IAYM	Mini	IAC15	Classic 0.6"	Input	90-140 V ac/dc	15 V	1, 2, 4
1781-IAXS	Slim	WRC4-IAXS	Integral	1781-IAXM	Mini	IAC24	Classic 0.6"	Input	90-140 V ac/dc	24 V	1, 2, 4
1781-IB5S	Slim	WRC4-IB5S	Integral	1781-IB5M	Mini	IDC5D	Classic 0.6"	Input	3.3-32 V dc	5 V	1, 2, 4
1781-IBYS	Slim	WRC4-IBYS	Integral	1781-IBYM	Mini	IDC15D	Classic 0.6"	Input	3.3-32 V dc	15 V	1, 2, 4
1781-IBXS	Slim	WRC4-IBXS	Integral	1781-IBXM	Mini	IDC24D	Classic 0.6"	Input	3.3-32 V dc	24 V	1, 2, 4
1781-IT5S	Slim	WRC4-IT5S	Integral	1781-IT5M	Mini	IDC5K	Classic 0.6"	Input	3.3-32 V dc	5 V	4, 5
1781-ITYS	Slim	WRC4-ITYS	Integral	1781-ITYM	Mini			Input	3.3-32 V dc	15 V	4, 5
1781-ITXS	Slim	WRC4-ITXS	Integral	1781-ITXM	Mini			Input	3.3-32 V dc	24 V	4, 5
1781-IM5S	Slim	WRC4-IM5S	Integral	1781-IM5M	Mini	IAC5A	Classic 0.6"	Input	180-280 V ac/dc	5 V	1, 2, 4
1781-IMYS	Slim	WRC4-IMYS	Integral	1781-IMYM	Mini	IAC15A	Classic 0.6"	Input	180-280 V ac/dc	15 V	1, 2, 4
1781-IMXS	Slim	WRC4-IMXS	Integral	1781-IMXM	Mini	IAC24A	Classic 0.6"	Input	180-280 V ac/dc	24 V	1, 2, 4
1781-IN5S	Slim	WRC4-IN5S	Integral	1781-IN5M	Mini	IDC5	Classic 0.6"	Input	10-60 V ac/dc	5 V	1, 2, 4
1781-INYS	Slim	WRC4-INYS	Integral	1781-INYM	Mini	IDC15	Classic 0.6"	Input	10-60 V ac/dc	15 V	1, 2, 4
1781-INXS	Slim	WRC4-INXS	Integral	1781-INXM	Mini	IDC24	Classic 0.6"	Input	10-60 V ac/dc	24 V	1, 2, 4
1781-OA5S	Slim	WRC4-OA5S	Integral	1781-OA5M	Mini	OAC5	Classic 0.6"	Zero Cross Output	12-140 V ac	5 V	1, 2, 4
1781-OAYS	Slim	WRC4-OAYS	Integral	1781-OAYM	Mini	OAC15	Classic 0.6"	Zero Cross Output	12-140 V ac	15 V	1, 2, 4
1781-OAXS	Slim	WRC4-OAXS	Integral	1781-OAXM	Mini	OAC24	Classic 0.6"	Zero Cross Output	12-140 V ac	24 V	1, 2, 4
1781-OB5S	Slim	WRC4-OB5S	Integral	1781-OB5M	Mini	ODC5	Classic 0.6"	Output	3-60 V dc	5 V	1, 2, 4
1781-OBYS	Slim	WRC4-OBYS	Integral	1781-OBYM	Mini	ODC15	Classic 0.6"	Output	3-60 V dc	15 V	1, 2, 4
1781-OBXS	Slim	WRC4-OBXS	Integral	1781-OBXM	Mini	ODC24	Classic 0.6"	Output	3-60 V dc	24 V	1, 2, 4
1781-OC5S	Slim	WRC4-OC5S	Integral	1781-OC5M	Mini	ODC5A	Classic 0.6"	Output	5-200 V dc	5 V	1, 2, 4
1781-OCYS	Slim	WRC4-OCYS	Integral	1781-OCYM	Mini	ODC15A	Classic 0.6"	Output	5-200 V dc	15 V	1, 2, 4
1781-OCXS	Slim	WRC4-OCXS	Integral	1781-OCXM	Mini	ODC24A	Classic 0.6"	Output	5-200 V dc	24 V	1, 2, 4
1781-OF5S	Slim	WRC4-OF5S	Integral					MOSFET Output	0-50 V dc	5 V	1, 2, 4
1781-OFYS	Slim	WRC4-OFYS	Integral					MOSFET Output	0-50 V dc	15 V	1, 2, 4
1781-OFXS	Slim	WRC4-OFXS	Integral					MOSFET Output	0-50 V dc	24 V	1, 2, 4
1781-OG5S	Slim	WRC4-OG5S	Integral					MOSFET Output	0-100 V dc	5 V	1, 2, 4
1781-OGYS	Slim	WRC4-OGYS	Integral					MOSFET Output	0-100 V dc	15 V	1, 2, 4
1781-OGXS	Slim	WRC4-OGXS	Integral					MOSFET Output	0-100 V dc	24 V	1, 2, 4
1781-OL5S	Slim	WRC4-OL5S	Integral					Zero Cross Output	24-280 V ac	5 V	1, 2, 4
1781-OM5S	Slim	WRC4-OM5S	Integral	1781-OM5M	Mini	OAC5A	Classic 0.6"	Zero Cross Output	24-280 V ac	5 V	1, 2, 4
1781-OMYS	Slim	WRC4-OMYS	Integral	1781-OMYM	Mini	OAC15A	Classic 0.6"	Zero Cross Output	24-280 V ac	15 V	1, 2, 4
1781-OMXS	Slim	WRC4-OMXS	Integral	1781-OMXM	Mini	OAC24A	Classic 0.6"	Zero Cross Output	24-280 V ac	24 V	1, 2, 4
1781-OM5SC	Slim	WRC4-OM5SC	Integral			OAC5A5	Classic 0.6"	N.C. Zero Cross Output	24-280 V ac	5 V	1, 2, 4
1781-OMYSC	Slim	WRC4-OMYSC	Integral					N.C. Zero Cross Output	24-280 V ac	15 V	1, 2, 4
1781-OMXSC	Slim	WRC4-OMXSC	Integral					N.C. Zero Cross Output	24-280 V ac	24 V	1, 2, 4
1781-OM5SR	Slim	WRC4-OM5SR	Integral			OAC5A11	Classic 0.6"	Instant On Output	24-280 V ac	5 V	1, 2, 4
1781-OMYSR	Slim	WRC4-OMYSR	Integral			OAC15A11	Classic 0.6"	Instant On Output	24-280 V ac	15 V	1, 2, 4
1781-OMXSR	Slim	WRC4-OMXSR	Integral			OAC24A11	Classic 0.6"	Instant On Output	24-280 V ac	24 V	1, 2, 4
1781-OP5S	Slim	WRC4-OP5S	Integral					Zero Cross Output	24-480 V ac	5 V	1, 2, 4
1781-OPYS	Slim	WRC4-OPYS	Integral					Zero Cross Output	24-480 V ac	15 V	1, 2, 4
1781-OPXS	Slim	WRC4-OPXS	Integral					Zero Cross Output	24-480 V ac	24 V	1, 2, 4
1781-RO5S	Slim	WRC4-RO5S	Integral			ODC5R	Classic 0.6"	N.O. Relay	Relay	5 V	3, 4, 5
1781-ROYS	Slim	WRC4-ROYS	Integral			ODC15R	Classic 0.6"	N.O. Relay	Relay	15 V	3, 4, 5
1781-ROXS	Slim	WRC4-ROXS	Integral			ODC24R	Classic 0.6"	N.O. Relay	Relay	24 V	3, 4, 5
1781-RC5S	Slim	WRC4-RC5S	Integral			ODC5R5		N.C. Relay	Relay	5 V	3, 4, 5
1781-RCYS	Slim	WRC4-RCYS	Integral			ODC15R5		N.C. Relay	Relay	15 V	3, 4, 5
1781-RCXS	Slim	WRC4-RCXS	Integral			ODC24R5		N.C. Relay	Relay	24 V	3, 4, 5
1781-SW5S	Slim	WRC4-SW5S	Integral					Switch Input/output	n/a	5 V	4
1781-SWYS	Slim	WRC4-SWYS	Integral					Switch Input/output	n/a	15 V	4
1781-SWXS	Slim	WRC4-SWXS	Integral					Switch Input/output	n/a	24 V	4
1781-WO5S	Slim	WRC4-WO5S	Integral					N.O. Watchdog Timer	N.O. Relay	5 V	3
1781-WC5S	Slim	WRC4-WC5S	Integral					N.C. Watchdog Timer	N.C. Relay	5 V	3
1781-IA5Q	Quad							Input	90-140 V ac/dc	5 V	1, 2, 4
1781-IB5Q	Quad							Input	3.3-32 V dc	5 V	1, 2, 4
1781-IM5Q	Quad							Input	180-280 V ac/dc	5 V	1, 2, 4
1781-IN5Q	Quad							Input	10-60 V ac/dc	5 V	1, 2, 4
1781-IT5Q	Quad							Input	3.3-32 V dc	5 V	4, 5
1781-OA5Q	Quad							Output	12-140 V ac	5 V	1, 2, 4
1781-OB5Q	Quad							Output	3-60 V dc	5 V	1, 2, 4
1781-OC5Q	Quad							Output	5-200 V dc	5 V	1, 2, 4
1781-OM5Q	Quad							Output	24-280 V ac	5 V	1, 2, 4
1781-RO5Q	Quad							N.O. Relay	Relay	5 V	3, 4, 5
1781-RC5Q	Quad							N.C. Relay	Relay	5 V	3, 4, 5

Notes: 1. UL recognized — File E150818 2. CSA Certified — File LR84997 3. 500V isolation not optically isolated 4. CE compliant 5. CVL



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COMPARISON

Potter Brumfield	OPTO-22 (G4) note 6	Grayhill (G5) note 6	Crouzet/Gordos (C4) note 6	Continental	Analog Devices	1781 or WRC4 Module	Power Side Watts		Signal Side Module		Watts per Module	
							Nom.	Max.	Nom.	Max.	Nom.	Max.
IAC-5	IAC5	70-IAC5	IAC5(N)	I/O3-IAC-05-000	IA140A	IA5S	1	1.4	0.1	0.1	1.2	1.6
	IAC15	70-IAC15		I/O3-IAC-15-000		IAYS	1	1.4	0.15	0.25	1.3	1.8
IAC-24	IAC24	70-IAC24	IAC24	I/O3-IAC-24-000		IAXS	1	1.4	0.2	0.4	1.4	2
IDC-5	IDC5D(B)	70-IDC5	IDC5(N)	I/O3-IDCD-05-000		IB5S	0.6	1.1	0.1	0.1	0.8	1.3
		70-IDC15				IBYS	0.6	1.05	0.15	0.25	0.9	1.45
IDC-24		70-IDC24	IDC24			IBXS	0.6	1	0.2	0.4	1	1.6
IDC-5F	IDC5K	70-IDC5B	IDC5F			IT5S	0.6	1.1	0.1	0.1	0.8	1.3
						ITXS	0.6	1	0.2	0.4	1	1.6
IDC-24F			IDC24F			ITYS	0.6	1	0.2	0.4	1	1.6
IAC-5A	IAC5A	70-IAC5A	IAC5A	I/O3-IAC-05-A00	IA280A	IM5S	1.5	2.3	0.1	0.1	1.7	2.5
	IAC15A	70-IAC15A		I/O3-IAC-15-A00		IMYS	1.5	2.3	0.15	0.25	1.8	2.7
IAC-24A	IAC24A	70-IAC24A	IAC5A	I/O3-IAC-24-A00		IMXS	1.5	2.3	0.2	0.4	1.9	2.9
IAC-5E	IDC5(G)	70-IDC5NP	IDC5(N)	I/O3-IDC-05-A00	ID016/1	IN5S	0.3	1.8	0.1	0.1	0.5	2
	IDC15	70-IDC15NP		I/O3-IDC-15-A00		INYS	0.3	1.8	0.15	0.25	0.6	2.2
IAC-24E	IDC24	70-IDC24NP	IDC24(N)	I/O3-IDC-24-A00		INXS	0.3	1.8	0.2	0.4	0.7	2.4
OAC-5	OAC5	70-OAC5	OAC5	I/O3-OAC-05-A00	OA140A	OA5S	2.4	4.8	0.1	0.2	2.6	5.1
	OAC15	70-OAC15		I/O3-OAC-15-A00		OAYS	2.4	4.8	0.15	0.3	2.7	5.25
OAC-24	OAC24	70-OAC24	OAC24	I/O3-OAC-24-A00		OAXS	2.4	4.8	0.2	0.4	2.8	5.4
ODC-5	ODC5	70-ODC5	ODC5(F)	I/O3-ODC-05-A00	OD060	OB5S	2.3	4.5	0.1	0.2	2.5	4.8
	ODC15	70-ODC15		I/O3-ODC-15-A00		OBYS	2.3	4.5	0.2	0.35	2.65	5
ODC-24	ODC24	70-ODC24	ODC24(F)	I/O3-ODC-24-A00		OBXS	2.3	4.5	0.3	0.5	2.8	5.2
ODC-5A	ODC5A	70-OAC5A	ODC5A			OC5S	0.8	1.6	0.1	0.2	1	1.9
	ODC15A					OCYS	0.8	1.6	0.2	0.35	1.15	2.1
ODC-24A	ODC24A					OCXS	0.8	1.6	0.3	0.5	1.3	2.3
			ODC24A			OF5S	0.8	1.3	0.1	0.1	0.9	1.4
		70-ODC5B	ODC5MA(MC/ML)			OFYS	0.8	1.3	0.15	0.25	1.0	1.6
		70-ODC15B				OFXS	0.8	1.3	0.2	0.4	1.0	1.7
		70-ODC24B	ODC24MA(MC/ML)			OG5S	1.3	2.5	0.1	0.1	1.4	2.6
						OGYS	1.3	2.5	0.15	0.25	1.5	2.8
						OGXS	1.3	2.5	0.2	0.4	1.5	2.9
OAC-5A	OAC5A	70-OAC5A	OAC5A	I/O3-OAC-05-A00	OA280A	OL5S	2.4	4.8	0.1	0.2	2.6	5.1
OAC-5A	OAC5A	70-OAC5A	OAC5A	I/O3-OAC-05-A00	OA280A	OMS5	2.4	4.8	0.1	0.2	2.6	5.1
	OAC15A	70-OAC15A		I/O3-OAC-15-A00		OMYS	2.4	4.8	0.15	0.3	2.7	5.25
OAC-24A	OAC24A	70-OAC24A	OAC24A	I/O3-OAC-24-A00		OMXS	2.4	4.8	0.2	0.4	2.8	5.4
	OAC5A5					OM5SC	2.4	4.8	0.1	0.2	2.6	5.1
						OMYSC	2.4	4.8	0.15	0.3	2.7	5.25
						OMXSC	2.4	4.8	0.2	0.4	2.8	5.4
OAC5R	OAC5A11	70-OAC5A-1	OAC5(A)R			OM5SR	2.4	4.8	0.1	0.2	2.6	5.1
						OMYSR	2.4	4.8	0.15	0.3	2.7	5.25
		70-OAC24A-1				OMXSR	2.4	4.8	0.2	0.4	2.8	5.4
OAC5AH			OAC5AH			OP5S	2.4	4.8	0.1	0.2	2.5	5.0
						OPYS	2.4	4.8	0.15	0.3	2.6	5.1
						OPXS	2.4	4.8	0.2	0.4	2.6	5.2
	ODC5R	70-ODC5R	ORR5			RO5S	0.02	0.1	0.2	0.3	0.2	0.4
						ROYS	0.02	0.1	0.35	0.45	0.35	0.55
			ORR24			ROXS	0.02	0.1	0.5	0.6	0.5	0.7
	ODC5R5					RC5S	0.02	0.1	0.2	0.3	0.2	0.4
						RCXS	0.02	0.1	0.35	0.45	0.35	0.55
						RXYS	0.02	0.1	0.5	0.6	0.5	0.7
						SW5S	0.02	0.1	0.2	0.3	0.2	0.4
						SWYS	0.02	0.1	0.35	0.45	0.35	0.55
						SWXS	0.02	0.1	0.5	0.6	0.5	0.7
						WO5S	0.02	0.1	0.2	0.3	0.2	0.4
						WC5S	0.02	0.1	0.2	0.3	0.2	0.4
	IAC5Q		IAC5Q		IA120Q	IA5Q	-	-	-	-	4.2	6
			IDC5Q			IB5Q	-	-	-	-	2.4	4.5
	IAC5AQ		IAC5AQ		IA240Q	IM5Q	-	-	-	-	6	9.4
	IDC5Q		IAC5EQ		ID32Q	IN5Q	-	-	-	-	1.2	7.6
	IDC5Q/IDC5BQ		IDC5Q/IDC5BQ		ID16FQ	IT5Q	-	-	-	-	2.4	4.5
	OAC5Q		OAC5Q			OA5Q	-	-	-	-	9.8	12.4
	ODC5Q		ODC5Q		OD60Q	OB5Q	-	-	-	-	9.2	11.7
	ODC5AQ		ODC5AQ			OC5Q	-	-	-	-	3.4	6.8
	OAC5Q		OAC5AQ		OA240	OM5Q	-	-	-	-	9.8	12.4
			ORR5Q			RO5Q	-	-	-	-	2	2.8
						RC5Q	-	-	-	-	2	2.8

Discrete I/O Modules



6. C4, G4 and G5 prefixes cross to WRC4