

IOLAN RJ45 8 & 10 PIN

RJ 45 10 pin	RJ45 8 pin	Description	Type
1		Power In	Input
2	1	DCD	Input
3	2	RTS	Output
4	3	DSR	Input
5	4	TXD	Output
6	5	RXD	Input
7	6	GND	
8	7	CTS	Input
9	8	DTR	Output
10		Power Out	Output

Note: The Power Out option not available on the IOLAN DS1

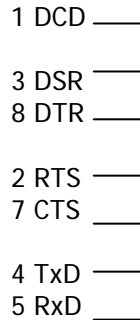
RJ 45 connector pin color lookup table

Pin	Scheme 1	Scheme 2 (EIA 568B)	Scheme 3 (EIA 568A)	Pair
1	Blue	White+Green	White+Orange	2+
2	Orange	Green	Orange	2-
3	Black	White+Orange	White+Green	3+
4	Red	Blue	Blue	1+
5	Green	White+Blue	White+Blue	1-
6	Yellow	Orange	Green	3-
7	Brown	White+Brown	White+Brown	4+
8	White or Grey	Brown	Brown	4-

Cabling Examples

As 8 pin RJ45 cables and adapters are most common, the following examples are based on using an 8 pin cable/connector. If you are using a 10 pin cable/adaptor then refer to the signaling chart above.

8 pin Loopback



RJ-45 (IOLAN) to DB-25, straight-thru

RJ-45 Iolan		DB-25 M/F	
4	TxD	TxD	2
5	RxD	RxD	3
6	Gnd	Gnd	7
8	DTR	DTR	20
3	DSR	DSR	6
1	DCD	DCD	8
2	RTS	RTS	4
7	CTS	CTS	5

IOLAN RJ45 PIN-OUTS

RJ-45 (IOLAN) to DB-25, crossover

RJ-45		DB-25		
Iolan		M/F		
-----		-----		
4	TxD	-----	RxD	3
5	RxD	-----	TxD	2
6	Gnd	-----	Gnd	7
8	DTR	-----	DSR	6
		-----	DCD	8
3	DSR	-----	DTR	20
2	RTS	-----	CTS	5
7	CTS	-----	RTS	4

RJ-45 (IOLAN) to DB-9, straight-thru

RJ-45		DB-9		
Iolan		M / F		
-----		-----		
4	TxD	-----	TxD	3
5	RxD	-----	RxD	2
6	Gnd	-----	Gnd	5
8	DTR	-----	DTR	4
3	DSR	-----	DSR	6
1	DCD	-----	DCD	1
2	RTS	-----	RTS	7
7	CTS	-----	CTS	8

RJ-45 (IOLAN) to DB-9, crossover

RJ-45		DB-9		
Iolan		M / F		
-----		-----		
4	TxD	-----	RxD	2
5	RxD	-----	TxD	3
6	Gnd	-----	Gnd	5
8	DTR	-----	DCD	1
		-----	DSR	6
3	DSR	-----	DTR	4
2	RTS	-----	CTS	8
7	CTS	-----	RTS	7

IOLAN RJ45 PIN-OUTS

RJ-45 (IOLAN) to DB-9, Foundry

RJ-45		DB-9	
Iolan		M / F	
-----		-----	
4	TxD	RxD	3
5	RxD	TxD	2
6	Gnd	Gnd	5
2	RTS	CTS	7
7	CTS	RTS	8

RJ-45 (Iolan) to RJ-45 (Iolan) straight-thru

RJ-45		RJ-45	
Iolan		Iolan	
-----		-----	
4	TxD	TxD	4
5	RxD	RxD	5
6	Gnd	Gnd	6
8	DTR	DTR	8
3	DSR	DSR	3
1	DCD	DCD	1
2	RTS	RTS	2
7	CTS	CTS	7

RJ-45 (Iolan) to RJ-45 (Iolan), crossover

RJ-45		RJ-45	
Iolan		Iolan	
-----		-----	
4	TxD	RxD	5
5	RxD	TxD	4
6	Gnd	Gnd	6
8	DTR	DCD	1
		DSR	3
3	DSR	DTR	8
2	RTS	CTS	7
7	CTS	RTS	2

IOLAN RJ45 PIN-OUTS

RJ-45 (IOLAN) to RJ-45 (Sun/Cisco), crossover

RJ-45 IOLan			RJ-45 Sun/Cisco	
-----			-----	
4	TxD	-----	RxD	6
5	RxD	-----	TxD	3
6	Gnd	-----	Gnd	4
8	DTR	-----	DSR	7
3	DSR	-----	DTR	2
2	RTS	-----	CTS	8
7	CTS	-----	RTS	1

RJ45 SUN ILOM

RJ-45 (IOLAN) to RJ-45 SUN ILOM serial port

RJ-45 IOLan			RJ-45 ILOM	
-----			-----	
4	TxD	-----	RxD	6
5	RxD	-----	TxD	3
6	Gnd	-----	Gnd	4
8	DTR	-----	DCD	7
3	DSR	-----	DTR	2
2	RTS	-----	CTS	8
7	CTS	-----	RTS	1

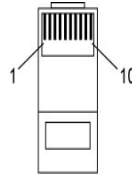
RJ-45 (IOLAN) to RJ-45 JetStream/Cs9000 serial port

RJ45M iolan			RJ45F JetStream/CS9000	
1	DCD	<-----	DCD	1
2	RTS	----->	CTS	7
3	DSR	<-----	DTR	3
4	TXD	----->	TXD	5
5	RXD	<-----	RXD	6
6	GND	----->	Gnd	4
7	CTS	<-----	RTS	8
8	DTR	----->	DSR	2

RS-422 Pin-outs for the IOLAN DS/SDS family

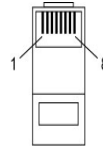
The connectors shown in this table represent what needed to connect to the IOLAN serial ports.

RJ45 10-pin	EIA-422
1	Power In
3	TxD+
5	TxD-
6	RxD+
7	GND
8	RxD-
10	Power out



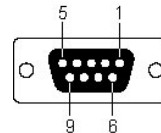
The IOLAN SDS1 to SDS4 port Desktop models support The RJ45-10 pin plug, pins 1 and 10 are the power pins

RJ45 8-pin	EIA-422
2	TxD+
4	TxD-
5	RxD+
6	GND
7	RxD-



The IOLAN SDS 8 and 16 Rack models support the RJ45-8 pin plug, no serial power on those models.

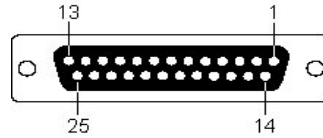
DB9M pins	EIA-422
2	RxD+
3	TxD+
5	GND
6	RxD-
9	TxD-/RxD-



A DB9F connector is required to plug into the IOLAN DS/SDS1 models (DB9M) no serial power on this model.

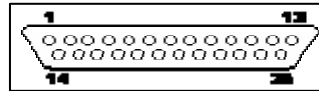
IOLAN RJ45 PIN-OUTS

DB25M Pin	EIA-422
1	Shield
7	GND
9	Power out
12	Power in
13	CTS-
14	TxD+
15	TxD-
18	RTS+
19	RTS-
21	RxD+
22	RxD-
25	CTS+



A DB25F connector is required to plug into the IOLAN DS/SDS1 models (DB25M)

DB25F Pin	EIA-422
1	Shield
7	GND
9	Power out
12	Power in
13	RTS-
14	RxD+
15	RxD-
18	CTS+
19	CTS-
21	TxD+
22	TxD-
25	RTS+



A DB25M connector is required to plug into the IOLAN DS/SDS1 models (DB25F)