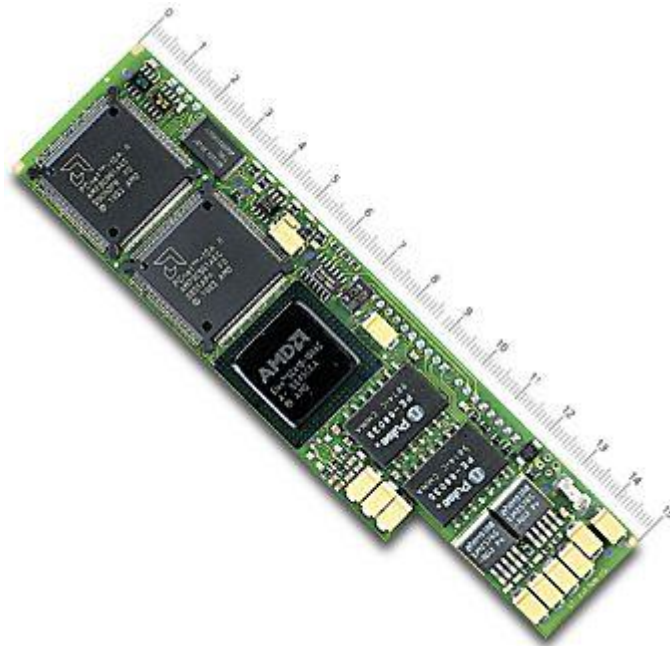
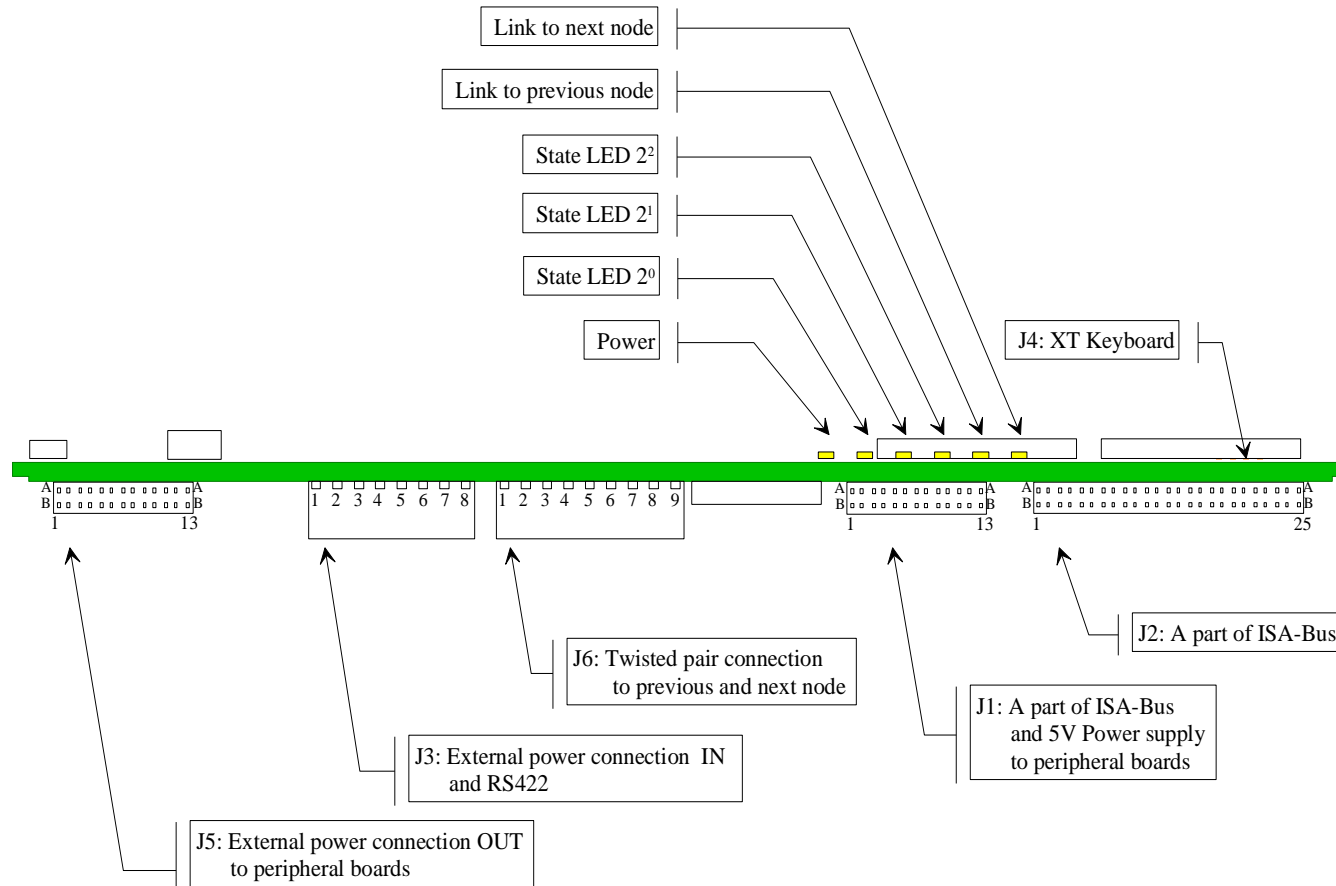


# ISS1.2



# ISS1.2 - Full Connection Schematics



# ISS1.2 - ISA-Bus Connector 1 of 2 ( J1 )

	Row A	Row B
Pin 1	+ 5V (Power supply)	+ 5V (Power supply)
Pin 2	+ 5V (Power supply)	+ 5V (Power supply)
Pin 3	IRQ 0 (Interrupt Request)	PDRQ0 (Programmable DMA Request)
Pin 4	IRQ 1 (Interrupt Request)	PDACK0 (Programmable DMA Acknowledge)
Pin 5	IRQ 2 (Interrupt Request)	PDRQ1 (Programmable DMA Request)
Pin 6	IRQ 3 (Interrupt Request)	PDACK1 (Programmable DMA Acknowledge)
Pin 7	IRQ 4 (Interrupt Request)	IOCS16 (I/O Chip Select 16 Bit)
Pin 8	IRQ 5 (Interrupt Request)	MCS16 (Memory Chip Select 16 Bit)
Pin 9	IRQ 6 (Interrupt Request)	AEN (DMA Address Enable)
Pin 10	IRQ 7 (Interrupt Request)	TC (Terminal count)
Pin 11	RES 1 (Reserved for further usage)	IOCHRDY (I/O Channel Ready)
Pin 12	Ground (Internal)	Ground (Internal)
Pin 13	Ground (Internal)	Ground (Internal)

# ISS1.2 - ISA-Bus Connector 2 of 2 ( J2 )

	Row A	Row B
Pin 1	D15 (Data Bus)	D07 (Data Bus)
Pin 2	D14 (Data Bus)	D06 (Data Bus)
Pin 3	D13 (Data Bus)	D05 (Data Bus)
Pin 4	D12 (Data Bus)	D04 (Data Bus)
Pin 5	D11 (Data Bus)	D03 (Data Bus)
Pin 6	D10 (Data Bus)	D02 (Data Bus)
Pin 7	D09 (Data Bus)	D01 (Data Bus)
Pin 8	D08 (Data Bus)	D00 (Data Bus)
Pin 9	Ground (Internal)	Ground (Internal)
Pin 10	A08 (Address Bus)	A00 (Address Bus)
Pin 11	A09 (Address Bus)	A01 (Address Bus)
Pin 12	A10 (Address Bus)	A02 (Address Bus)
Pin 13	A11 (Address Bus)	A03 (Address Bus)
Pin 14	A12 (Address Bus)	A04 (Address Bus)
Pin 15	A13 (Address Bus)	A05 (Address Bus)
Pin 16	A14 (Address Bus)	A06 (Address Bus)
Pin 17	A15 (Address Bus)	A07 (Address Bus)
Pin 18	A16 (Address Bus)	BALE (Bus Address Latch Enable)
Pin 19	A17 (Address Bus)	SBHE (Byte High Enable)
Pin 20	A18 (Address Bus)	MEMR (Memory Read Command)
Pin 21	A19 (Address Bus)	MEMW (Memory Write Command)
Pin 22	A20 (Address Bus)	IOR (I/O Read Command)
Pin 23	A21 (Address Bus)	IOW (I/O Write Command)
Pin 24	A22 (Address Bus)	CLK (Clock 8.29 MHz)
Pin 25	A23 (Address Bus)	RSRDRV (System Reset)

# ISS1.2 - Power Connector In ( J3 )

Pin 1	+24V	(External)
Pin 2	Ground	(External)
Pin 3	Ground	(External)
Pin 4	RxD+	(RS422)
Pin 5	RxD-	(RS422)
Pin 6	TxD+	(RS422)
Pin 7	TxD-	(RS422)
Pin 8	Ground	(Internal)

# ISS1.2 - XT Keyboard - Only soldered joint ( J4 )

Pin 1	XT_CLK	(XT Keyboard Clock)
Pin 2	XT_Data	(XT Keyboard Data)
Pin 3	+ 5V	(Power supply )
Pin 4	Ground	(Internal)

# ISS1.2 - Power supply to peripheral boards ( J5 )

	Row A	Row B
Pin 1	+24V (External)	+24V (External)
Pin 2	+24V (External)	+24V (External)
Pin 3		
Pin 4		
Pin 5		
Pin 6		
Pin 7		
Pin 8		
Pin 9		
Pin 10		
Pin 11		
Pin 12	Ground (External)	Ground (External)
Pin 13	Ground (External)	Ground (External)

# ISS1.2 - Ethernet Connection ( J6 )

Pin 1	TD1+	(Next)
Pin 2	TD1-	(Next)
Pin 3	RD1+	(Next)
Pin 4	RD1-	(Next)
Pin 5	TD2+	(Previous)
Pin 6	TD2-	(Previous)
Pin 7	RD2+	(Previous)
Pin 8	RD2-	(Previous)
Pin 9	GND	(Internal)