

SINGLE ENDED SCSI ACTIVE NEGATION MAP FOR
SCSI-2, SCSI-3 SPI AND SCSI-3 FAST 20

(FUNCTION ON BUS: ACTIVE NEGATION REQUIREMENTS)

SERVICE*	ACK	REQ	DATA	PARITY	BSY	SEL	RST	ATN	I/O, C/D, MSG
SCAM	X	X	I or T:N	X	I or T:N	T:N	X	X	I or T:N
BUS FREE	X	X	X	X	X	X	X	X	X
ARBITRATION	X	X	ID:N	P:N	A:N	W:N	X	X	X
SELECTION	X	X	I:O	I:O	I&T:N	I:N	X	I:O	X
RESELECTION	X	X	T:O	T:O	I&T:N	T:N	X	I:O	T:O
SETUP	X	T:O	I or T:O	I or T:O	T:N	X	X	I:O	T:O
COMMAND	I:O	T:O	I:O	I:O	T:N	X	X	I:O	T:O
DATA IN (A)	I:O	T:O	T:O	T:O	T:N	X	X	I:O	T:O
DATA IN (5S)	I:D	T:D	T:D	T:D	T:N	X	X	I:O	T:O
DATA IN (10S)	I:D	T:D	T:D	T:D	T:N	X	X	I:O	T:O
DATA IN (20S)	I:R	T:R	T:R	T:R	T:N	X	X	I:O	T:O
DATA OUT (A)	I:O	T:O	I:O	I:O	T:N	X	X	I:O	T:O
DATA OUT (5S)	I:D	T:D	I:D	I:D	T:N	X	X	I:O	T:O
DATA OUT (10S)	I:D	T:D	I:D	I:D	T:N	X	X	I:O	T:O
DATA OUT (20S)	I:R	T:R	I:R	I:R	T:N	X	X	I:O	T:O
STATUS	I:O	T:O	T:O	T:O	T:N	X	X	I:O	T:O
MESSAGE IN	I:O	T:O	T:O	T:O	T:N	X	X	I:O	T:O
MESSAGE OUT	I:O	T:O	I:O	I:O	T:N	X	X	I:O	T:O
RESET	X	X	X	X	X	X	I or T:N	X	X

ABBREVIATIONS: (20S) = SYNCHRONOUS MODE FOR
CONNECTION >10 TO 20
MEGATRANSFERS / SEC

FUNCTIONS:

I = INITIATOR
T = TARGET
X = NONE (HIGH IMPEDANCE OUTPUT)
ID = SCSI ID
A = ALL
W = WINNER OF ABRITRATION
P = FUNCTION NOT REQUIRED
ASSERTION PERMITTED FROM ALL
SEE SECTION XXXXXX

ACTIVE NEGATION REQUIREMENTS:

N = ACTIVE NEGATION NOT ALLOWED (OR-TIED)
R = ACTIVE NEGATION REQUIRED
O = ACTIVE NEGATION OPTIONAL (NO HARM IF
USED)
D = ACTIVE NEGATION RECOMMENDED
(PERFORMANCE BENEFIT LIKELY)

SERVICE DETAILS:

(A) = ASYNCHRONOUS MODE FOR CONNECTION
(5S) = SYNCHRONOUS MODE FOR CONNECTION
UP TO 5 MEGATRANSFERS / SEC
(10S) = SYNCHRONOUS MODE FOR
CONNECTION >5 TO 10 MEGATRANSFERS
/ SEC

* SERVICES ARE RELATED TO THE PHASES IN
SCSI-2

SCSI WORKING GROUP

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