

Data Received by Host

Bank or Error	Bank
0	signals
1	signals
2	signals
3	signals
4	scanner data/serial data
5	detectors bit 6 = 1, bit 5 = 0/1:parallel/serial, bit 4 = 0/1:LSN/MSN
6	
7	clock, etc.

Errors

- ;error 0, parity error
- ;error 1, first byte data
- ;error 2, second byte address
- ;error 3
- ;error 4, software UART overflow
- ;error 5, serial detector power failure
- ;error 6, printer busy
- ;error 7, I/O configuration not set (a catch-all)

Example parity calculation

ADDRESS	SIGNUM	DATA	BANK (or Error #)
(Error Ch = 0)			
1	12	1	0
Nybble			
1	0	MSN of Address	
2	1	LSN of Address	
3	12	MSN nybble of twice value of Databyte 1	
4	2	LSN nybble of twice value of Databyte 1	
5	0	MSN nybble of Databyte 2 (just Bank #)	
6	1	LSN of Databyte 2 (parity):	
sum	0		
	12.5		

Example 4 byte Message

129 97 129 1

Use 4 bits parity

Optional and not implemented
 8 nly 3 parity bits and set bit 3 high
 otherwise use 4 parity bits

Decoding the received bytes

Byte 1	Byte 2	Byte 3	Byte 4	
128	64	128	1	
Address	Data	Address	Bank	Parity
0	64	0	0	1