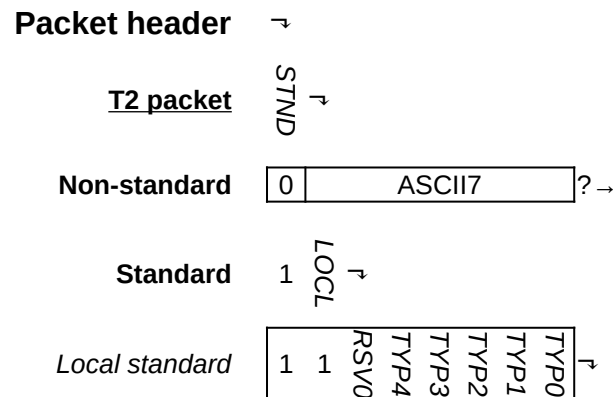


VERSION 17  
DATE 2020-05-25

Packet length is 1..255 bytes. Transport layer must handle byte and packet framing.

BYTE 0	BYTE 1	BYTE 2	BYTE 3	BYTE 4	...
7 6 5 4 3 2 1 0	7 6 5 4 3 2 1 0	7 6 5 4 3 2 1 0	7 6 5 4 3 2 1 0	7 6 5 4 3 2 1 0	



Local standard packets are defined per source/destination

PRU → PRU Not used

PRU → LKM Page 3

LKM → PRU Page 3

LKM → MFM Page 3

MFM → LKM Page 3

Page 2

**Local standard**    **PRU → LKM**

[illegible]

**Local standard**      **$LKM \rightarrow PRU$**

reserved	1	1	*	x	x	x	x	x	?	→
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Note: LKM → PRU uses non-standard packets rather than STNDLOCL. See [T2-12/pru/itcio/firmware/SpecialPackets.c](#) for details

**Local standard**     $LKM \rightarrow MFM$

illegal	1	1	*	0	0	0	0	0	?
reserved	1	1	*	0	0	0	0	1	?
reserved	1	1	*	0	0	0	1	x	?
reserved	1	1	*	0	0	1	x	x	?
reserved	1	1	*	0	1	x	x	x	?
reserved	1	1	*	1	x	x	x	x	?

**Local standard**    **MFM → LKM**

	1	1	*	0	0	0	0	0	?
illegal	1	1	*	0	0	0	0	0	?
reserved	1	1	*	0	0	0	0	1	?
reserved	1	1	*	0	0	0	1	x	?
reserved	1	1	*	0	0	1	x	x	?
reserved	1	1	*	0	1	x	x	x	?
reserved	1	1	*	1	x	x	x	x	?

Abbreviations:	Code:	Meaning
	?	Optional data not defined by this spec
	*	Reserved, should ignore on read, should be 0 on write
	→	For rest of packet
	↪	Defined below
	ACT	Active, sender is performing an event
	CTL	Circuit control packet
	CN $n$	Circuit number, bit $n$
	EN $n$	Enable status bit, prudir $n$
	ERR	Error, corrupted packet
	ITC	Intertile Connection
	KITC	Kernel Intertile Connection
	LOCL	Local packet moving PRU ↔ ARM, but not PRU ↔ PRU
	MFM	Movable Feast Machine
	$n$	Bit index counting from least significant bit is 0
	OVR	Overflow, packet too long
	RSV $n$	Reserved, bit $n$
	SD $n$	Packet source direction on read, destination direction on write, bit $n$
	SN $n$	State number, bit $n$
	STND	Standard packet format, defined by this spec
	TYP $n$	Type code, bit $n$
	URG	Urgent
	$x$	0 or 1
	XITC	Extended ITC