LoRaWAN® Packet

Preamble	PHY Header	PHY Header CRC	PHY Payload *PHYPayload*	CRC

PHY Payload

Size (Octets)	1	7..M	4
	MAC Header *MHDR*	MAC Payload *MACPayload*	Message Integrity Code *MIC*

MAC Header / MHDR

Bits	[7:5]	[4:2]	[1:0]
	Frame Type *Ftype*	Reserved For Future Use *RFU*	Major Data Frame Version *Major*

MAC Payload

Size (Octets)	7..22	0..1	0..N
	Frame Header *FHDR*	Frame Port *FPort*	Frame Payload *FRMPayload*

Frame Header / FHDR

Size (Octets)	4	1	2	0..15
	End Device Address *DevAddr*	Frame Control Octet *FCtrl*	Frame Counter *FCnt*	Frame Options *FOpts*

Frame Control Octet / FCtrl (uplink format)

Bits	7	6	5	4	[3..0]
	Adaptive Data Rate Control Bit *ADR*	ADR Acknowledgement Request Bit *ADRACKReq*	Frame Acknowledge Bit *ACK*	Class B enabled bit *ClassB*	Frame Options Length *FOptsLen*