

## Data map of RICOH AFICIO SG 2100N cartridge chip's memory

	0x00	0x01	0x02	0x03	0x04	0x05	0x06	0x07
0x00	M <sup>1</sup>	CV <sup>2</sup>	B <sup>3</sup>	Region <sup>4</sup>	T <sup>5</sup>	IC <sup>6</sup>	0x0	0xFF
0x08	IIA <sup>7</sup>	0x0	0xFF				ISR <sup>8</sup>	0xFF
0x10	Cartridge serial number <sup>9</sup>							
0x18	0xFF							
0x20	EDP code <sup>10</sup>							
0x28	PL <sup>11</sup>	0x0	0xFF					
0x30								
0x38								
0x40	IED <sup>12</sup>	Ink amount		Printer work status (PWS)				
0x48	PWS	IIC <sup>13</sup>	HRC <sup>14</sup>	HCC <sup>15</sup>	AIC <sup>16</sup>	ISF <sup>17</sup>	SF <sup>18</sup>	0xFF
0x50	0xFF						CPC <sup>19</sup>	
0x58	BPC <sup>20</sup>		EPC <sup>21</sup>		TPC <sup>22</sup>			
0x60	Amount of ink used							
0x68	0xFF							
0x70	Cartridge status							
0x78	Printer serial number							

- 1 Model
- 2 Cartridge version
- 3 Brand
- 4 Region of destination of the cartridge (e.g. Europe)
- 5 Type
- 6 Ink color – 1:black, 2:cyan, 3:magenta, 4:yellow
- 7 The initial amount of ink in percent
- 8 The number of refills of the ink delivery system
- 9 Two digits are coded on each byte
- 10 One of the following: 405761, 405762, 405763, 405764, 405765, 405766, 405767, 405768
- 11 Percentage of ink left (100 means full, 255 means not initialized)
- 12 Ink expiration date
- 13 The amount of ink used during cartridge initialization
- 14 The number of print head refresh cycles
- 15 The number of print head cleaning cycles
- 16 The number of air intrusions into the ink delivery system
- 17 The number of fills of the ink delivery system
- 18 Status flag
- 19 The number of color pages printed
- 20 The number of black and white pages printed
- 21 The number of economy color pages printed
- 22 The number of total pages printed